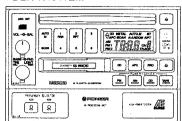


DEH-K4041ZM



ORDER NO. CRT 1196

**TUNER DECK · CD AMPLIFIER** 

# KA US (4141<sub>ZM</sub>

TUNER DECK · CD PLAYER

K**4141**zm-91 US

**AE AMPLIFIER** 

These models have been installed in MAZDA RX-7.

MAZDA No. DEH-K4041ZM FC04 9W0 **DEH-K4141ZM** FC32 9W0 AC0 DEX-K4141ZM-91 FC04 66 XF-4041ZM-91 FC04 AF0 66 AF0 FC32 66 XF-4141ZM-91

These models are used in combination with GM-4041ZM and GM-4141ZM.

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• DEX-K4141ZM-91, XF-4041ZM-91 and XF-4141ZM-91 are supplementary model number. These are identical to the DEH-K4041ZM and DEH-K4141ZM except for the addition of the following items.

Description	AM FM CASSETTE CD COMBI- NATION DEX-K4141ZM-91	AE PROCESSING UNIT XF-4041ZM-91	AE PROCESSING UNIT XF-4141ZM-91		
Carton	CHG1573	CHG1574	CHG1575		
Styrofoam	CHP1206				
Styrofoam	CHP1207	-			
Cover	CEG1042	CEG1051	CEG1051 CRB1051		
Installation Manual	CRB1119	CRB1119			
Bracket	CNC2770	CNC2358	CNC2358		
Bracket	CNC2771	_	<del>-</del> ·.		
Bracket	CNC2498	<u>-</u>	· <u>-</u>		
Screw	BMZ50P080FMC	<del>-</del>	-		
Screw	CBA1096		-		
Holder	CNC2531	_			
Polyethylene Bag	CEG1041		-		
Screw Assy	No spare part	No spare part	No spare part		
Screw	BMZ30P050FMC	_			
Screw BMZ50P080FMC			_		
Screw	CMZ50P080FMC	_	_		

#### Note:

- See the separate manual CX-173 (CRT1161) for the CD mechanism description.
- See the service manual CDX-3 (CRT1177) for CD mechanism circuit description.
- See the separate manual CX-156 (CRT-468) for the cassette mechanism description.
- Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- Noise Reduction System manufactured under license from Dolby Laboratories Licensing Corporation.

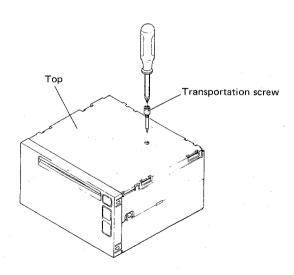
# 1. SPECIFICATIONS

Power source	ype
Tape Player	J3. <sub>1</sub>
Tape Compact cassette tape (C-30 ~ C-	- <b>9</b> 0)
Tape speed 4.76cm/sec. (+0.14cm/sec., -0.05cm/se	ec.)
Wow & flutter Less than 0.2% (WRIN	VS)
Frequency response0±5dB (10kHz/315	
0±4dB (125Hz/1k	
0±5dB (10kHz/1k	Hz)
$-4.5\pm3$ dB (70 $\mu$ s, 10k	
S/N More than 45	
Channel separation More than 35	idΒ
FM Tuner	
Frequency range 87.9 ~ 107.9N	
Usable sensitivity Less than 15dB $\mu$ (more	no)
S/N More than 50dB (30%mod., input 54dB	3 <i>µ</i> )
Distortion Less than 1.5% (30%mod., input 54dB	3µ)
Stereo separation More than 20dB (1kHz, input 60dB	3μ)
AM Tuner	
Frequency range 530 ~ 1,710k	
Usable sensitivity Less than 32d	Вμ
1-signal selectivity More than 40	dB
CD Player	
Distortion Less than 0.03% (1kb	Hz)
S/N More than 75	
Frequency response2.5±1dB (20Hz/1kH	
0±1dB (20kHz/1kH	٠łz)

AE
Distortion Less than 0.3% (-10dBs output, 100Hz)
Separation More than 38dB (185mV output, 100Hz)
Frequency response
(280Hz/100Hz) —2.5±2dB (DEH-K4041ZM)
(280Hz/100Hz) —3±2dB (DEH-K4141ZM)
(750Hz/100Hz) +2.5±2dB
(1.4kHz/100Hz)7±2dB
(20kHz/100Hz)+1.5±2dB (DEH-K4041ZM)
(20kHz/100Hz)+0.5±2dB (DEH-K4141ZM)
Voltage gain 0±2dB (-10dBs output, 100Hz)
AMP
Continuous power output More than 11W (10% dist. at 1kHz)
Front voltage gain (L)
(DEH-K4041ZM)
(L) 34.3±2dB (0dBs output at 1kHz)
(DEH-K4141ZM)
(R)
Rear voltage gain
Frequency response0.5±2dB (0dBs output 100Hz/1kHz)
Distortion Less than 0.1% (+10dBs output at 1kHz)

#### CD Player Service Precautions

- 1. Since these screws protects the mechanism during transport, be sure to affix it when it is transported for repair, etc.
- For pickup unit (CGY1007) handling, please refer to "Disassembly" (Fig. 10). During replacement, handling precautions shall be taken to prevent an electrostatic discharge (protection by a short pin).
- 3. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.





# 2. GENERAL GUIDE

**RADIO** 

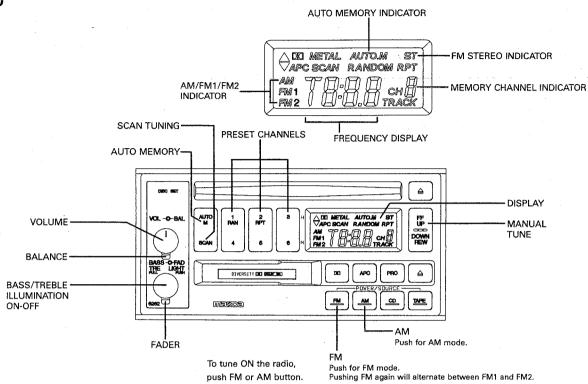


Fig. 1

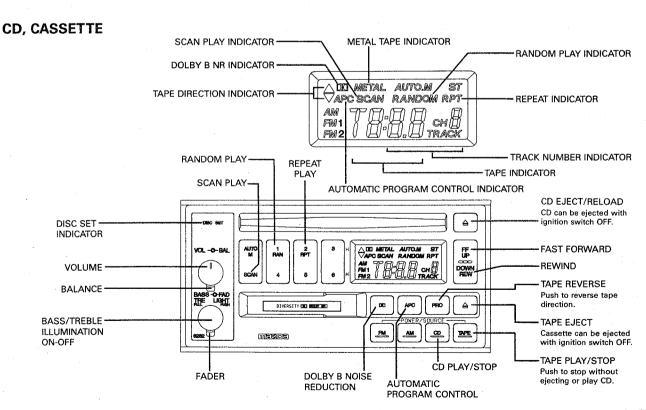


Fig. 2

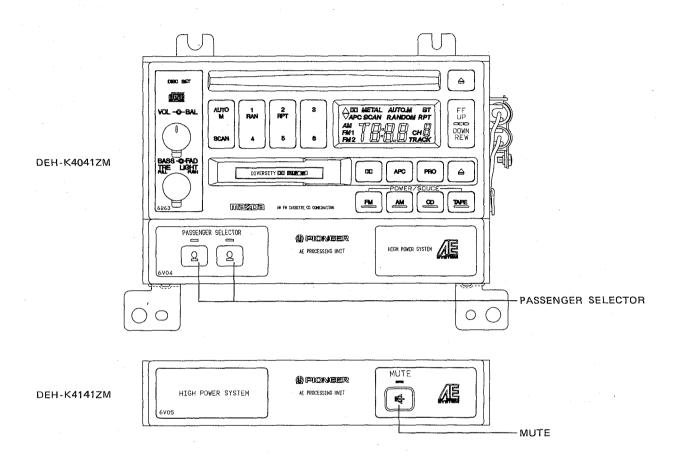


Fig. 3

# 3. CONNECTOR FUNCTION DESCRIPTION

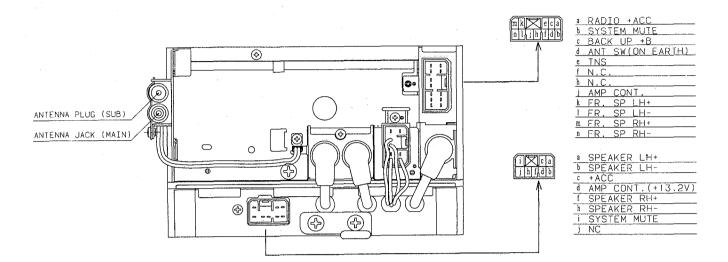


Fig. 4

# 4. DISASSEMBLY

#### Removing the Case

- 1. Remove the twelve screws, and remove the bracket.
- 2. Remove the four screws A.
- 3. Disconnect the stoppers indicated by arrow, and remove the case.

# Bracket AE PROCESSING UNIT Bracket

Fig. 5

#### Removing the Tuner Assy

- 1. Remove the two screws.
- 2. Disconnect the two connectors, and remove the tuner assy.

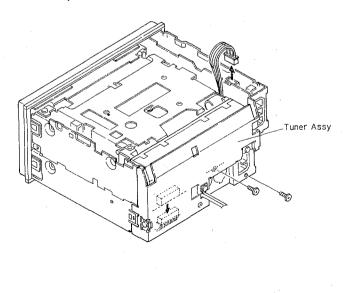


Fig. 6

#### • Removing the IF · MPX P.C.Board

- 1. Remove the two screws, and remove the case.
- 2. Remove solders at two locations indicated by arrows, and remove screw.
- 3. Disconnect the two connectors, and raise the IF · MPX p.c.board to remove from FE · AM p.c.board.

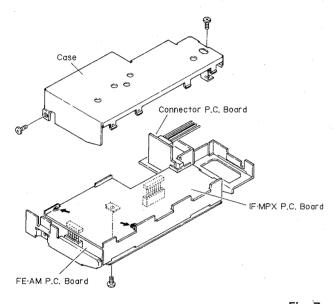


Fig. 7

#### • Removing the Grille Assy

- 1. Remove the four knobs.
- 2. Disengage the four claws indicated by arrows.
- 3. Disconnect the two connectors, and remove the grille assy.

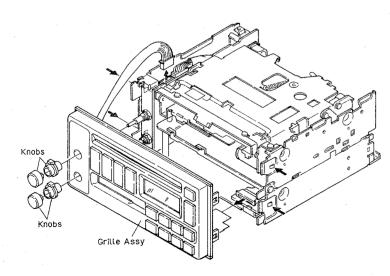


Fig. 8

#### Removing the CD Assy

- 1. Remove the three screws.
- 2. Disconnect the two connectors, and remove the CD assy.

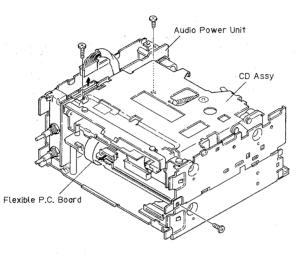


Fig. 9

#### • Removing the CD Mechanism Unit

- 1. Remove the three screws.
- 2. Disconnect the two connectors, and remove the CD mechanism unit.

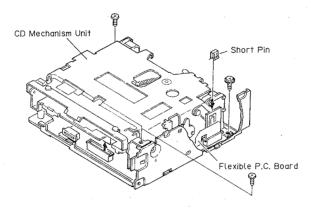


Fig. 10

NOTE: When remove the flexible p.c.board, always insert a shorting pin or insert an inter-pattern short (jumper) before disconnecting the board from the connector.

#### • Removing the Cassette Mechanism Assy

- 1. Remove the two screws, and remove the cover.
- 2. Disconnect the two connectors.
- 3. Remove the four screws, and remove the cassette mechanism assy.

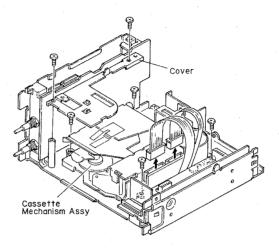


Fig. 11

#### • Removing the Audio Power Unit (Fig. 12)

- 1. Remove the three screws.
- 2. Disconnect the connector, and raise the audio power unit to remove from control p.c.board.

#### • Removing the P.C.Board (Fig. 12)

1. Disconnect the connector, and raise the p.c.board to remove from control p.c.board.

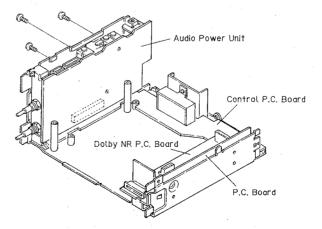


Fig. 12

#### • Removing the Dolby NR P.C.Board (Fig. 12)

1. Disconnect the connector, and raise the dolby NR p.c.board to remove from control p.c.board.

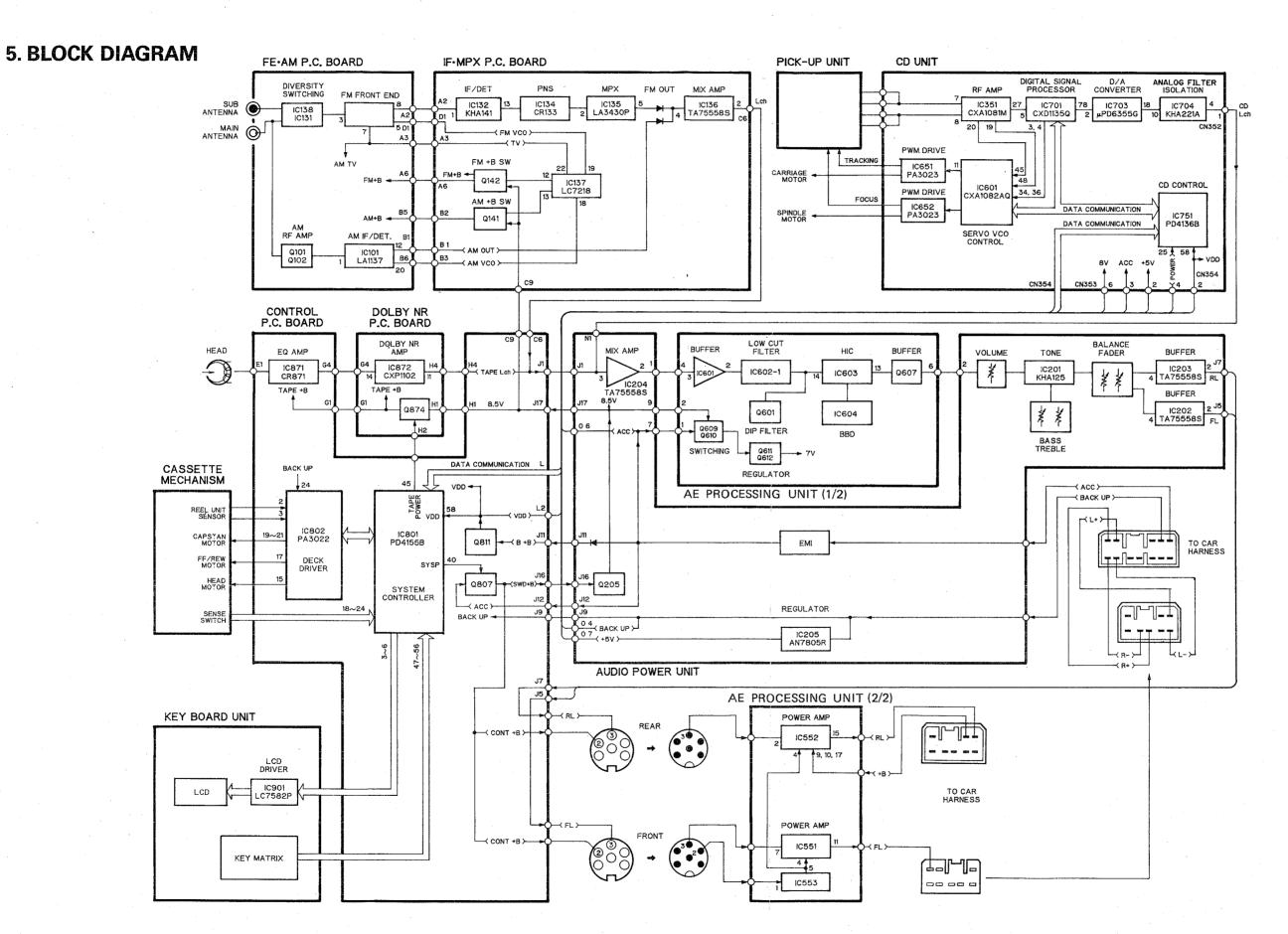


Fig. 13



# 6. ADJUSTMENT

Connection Diagram

#### NOTICE:

Select C1 so that total capacity of 80pF attained from the direction of the receiver jack.

Z: Output impedance of SSG.

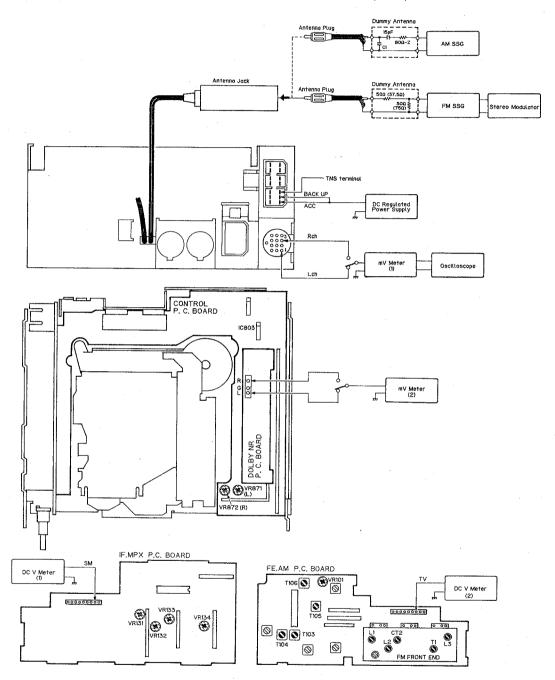


Fig. 14

# DOLBY NR LEVEL ADJUSTMENT

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150(400Hz,200nwb/m)	VR871 (Lch), VR872 (Rch)	mV Meter(2):-10 ±1dB (DOLBY NR Switch:OFF)

#### AM ADJUSTMENT

	No.	AM SSG(400Hz, 30%)		Displayed	Adjusting	Adjustment Method
		Frequency (kHz)	Level dB(µV)	Frequency (kHz)	Point	(Switch Position)
IF	1	600	25	600	T103, 104 105, 106	mV Meter(1):Maximum
Tun-	1			1,710		DC V meter(2):Less than 7.5V
ing Volt	2			530		DC V meter(2):More than 0.8V
Stop	1	1,000	38	1,000	VR101	Scanning stop
sensi- tivity	2	1,000	38±10	1,000		Verify that the scanning stop
	3	(LOC Mode)				TNS terminal→13.2V
	4	1,000	63±10	1,000		Verify that the scanning stop

# FM ADJUSTMENT \*\* Stereo MOD.: 1kHz, L+R = 30%

	No. FM SSG(400Hz, 30%)		1 1	Adjusting	Adjustment Method		
		Frequency (MHz)	Level dB(µV)	Frequency (MHz)	Point	(Switch Position)	
IF	1	98.1	10	98.1	T1	mV Meter(1):Maximum	
	2	98.1	60	98.1	VR131	DC V Meter(1):2.5V	
Track-	1			107.9	L3	DC V Meter(2):7.0 ±0.1V	
ing	2			87.9		DC V Meter(2):More than 1.4V	
	3	89.9	10	89.9	L1,L2	mV Meter(1):Maximum	
	4	106.1	10	106.1	CT2	mV Meter(1):Maximum	
	5	Repeat items (3) and (4) alternately so that the mV meter(1) indicates maximum output					
MPX	1	98.1%	60	98.1	VR133	mV Meter(1):Best separation	
	2	98.1%	<b>3</b> 5	98.1	VR134	mV Meter(1):Separation 5dB	
Stop	1	98.1	32	98.1	VR132	Scanning stop	
sensi- tivity	2	98.1	32±8	98.1		Verify that the scanning stop	

#### **CD ADJUSTMENT**

#### 1) Precautions

CD section uses a single power supply (+5V) of the regulator. The signal reference potencial, therefore, is connected to pin no. 14(approx. 2.5V) of IC351 (CXA-1081M) instead of GND (VC at test point)

If VC and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.

Do not connect the negative probe of the measuring equipment to VC and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to VC with the channel 2 negative probe connected to GND.

And since the frame of the measuring instruments is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.

If by accident VC comes in contact with GND, immediately switch the regulator or power OFF.

- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.

- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and/or electrical shocks to the system when making adjustments.
- Test mode starting procedure
   Turn ACC and Back-up ON while pressing the 1/RAN and 3 keys together.
- Test mode cancelation
  Turn ACC and Back-up OFF and then back ON.
- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.
  - During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.
  - O The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

#### 2) Adjustment Point

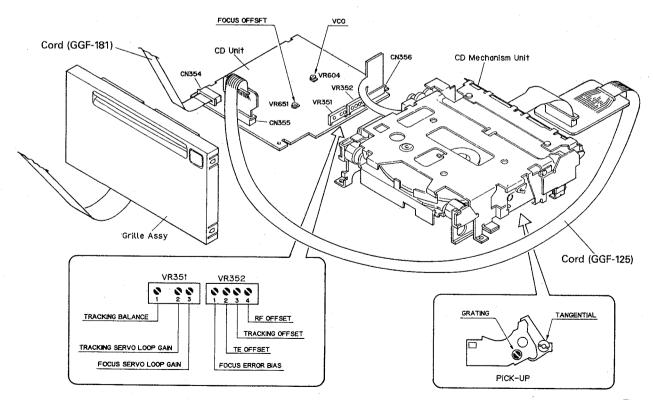


Fig. 15

# DEH-K4041ZM

#### • Flow Chart

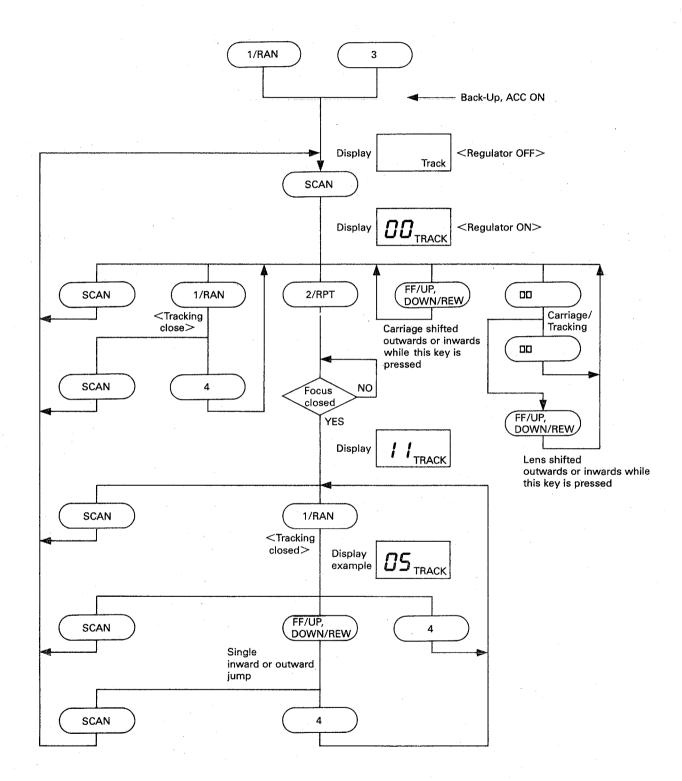


Fig. 16

# Test point

CD UNIT

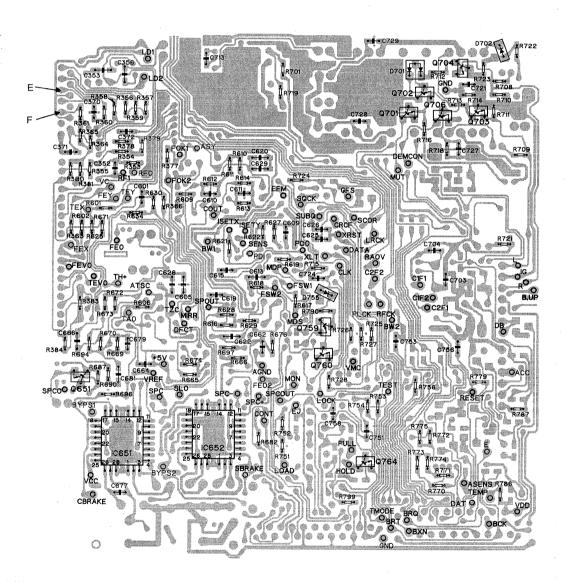


Fig. 17

#### 6.1 Focus Offset Adjustment

- Purpose: To adjust the electrical offset of the focus amplifier to zero.
- Maladjustment symptoms: No focus closing
- Measuring equipment/ jigs
- Measuring point
- Test disc and setting
- Adjustment position
- Multi-meter or oscilloscope
- FEO2
- No disc, test mode
- VR651

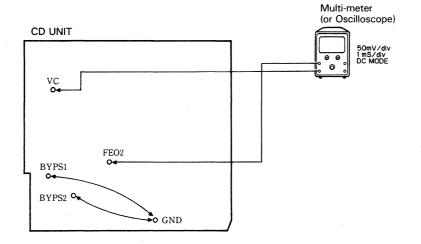


Fig. 18

- 1. Connect BYPS 1 and BYPS 2 to GND.
- 2. Switch regulator ON.
- 3. Using VR651, adjust the FEO2 DC voltage in reference to VC to a value of 0 ± 25mV.

#### 6.2 VCO Free Run Frequency Adjustment

- Purpose: To adjust the EFM decoder reference clock free- run frequency to a suitable value
- Maladjustment symptoms: Spindle lock not possible, distorted sound or no sound at all
- Measuring equipment/ iigs
- Frequency counter, extension cables
- Measuring point
- Pin no.70 (PLCK) of IC701 (CXD1135Q)
- Test disc and setting
- No disc
   Test mode
- Adjustment position
- VR604

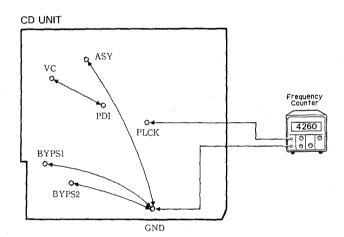


Fig. 19

#### **Adjustment Procedure**

- 1. Connect pin no.26 (TP ASY) of IC351 to GND. Connect BYPS 1 and BYPS 2 to GND.
- 2. Connect pin no.1 (TP VC) of IC601 to pin no.28 (TP PDI).
- 3. Switch regulator ON while in test mode.
- 4. Connect the frequency counter to pin no.70 (TP PLCK) of IC701 (CXD1135Q).
- 5. Adjust VR604 to obtain a frequency of 4.26  $\pm$  0.005MHz.
- 6. Switch regulator OFF.
- Disconnect the leads connecting TP VC to TP PDI, and TP ASY to GND.

Note: Connect TP VC and TP PDI with leads kept as short as possible.

Note: Connect the frequency counter ground to TP GND as shown in the figure.

#### 6.3 RF Offset Adjustment

- Purpose: To adjust the RF amplifier offset to a suitable value
- Maladjustment symptoms: Focus closure fails readily
- Measuring equipment/ jigs
- Measuring point
- Test disc and setting
- Adjustment position
- Oscilloscope
- RFO
- No disc
- Test mode
- n VR352-4 (RFO)

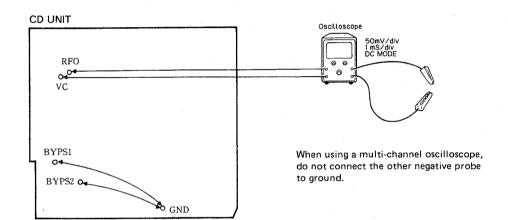


Fig. 20

- 1. Connect BYPS 1 and BYPS 2 to GND.
- 2. Switch regulator ON.
- 3. Using the oscilloscope, measure the RFO DC voltage in reference to VC, and adjust VR352-4 (RFO) to obtain a reading of  $+250\pm25$ mV.



#### 6.4 Tracking Offset Adjustment

- Purpose: To adjust the electrical offset of the tracking amplifier to zero
- Maladjustment symptoms: Search times too long, carriage run-away
- Measuring equipment/ iias
- Measuring point
- Test disc and setting
- Adjustment position
- Oscilloscope
- TAO low-pass filter output
- No disc Test mode
- VR352-3 (TO)

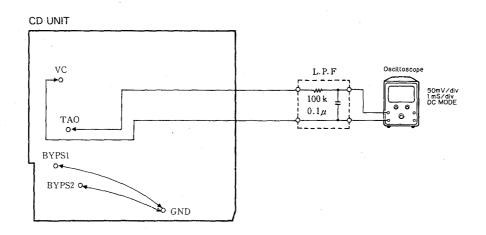


Fig. 21

#### **Adjustment Procedure**

- 1. Insert a low-pass filter between TAO and VC.
- 2. Check that BYPS 1 and BYPS 2 are connected to GND. GND.
- 3. Switch regulator ON.
- 4. Using the oscilloscope, measure the TAO LPF output DC voltage in reference to VC, and adjust VR352-3 (TO) to obtain a reading of 0 ± 25mV.

The low-pass filter may be left in place for later adjustments.

#### 6.5 TE Offset Adjustment - I

- Purpose: To adjust the electrical offset of the tracking servo to zero.
- Maladjustment symptoms: Search times too long, carriage run-away
- Measuring equipment/ jigs
- Measuring point
- Test disc and setting
- Adjustment position
- DC voltmeter
- TAO low-pass filter output
- No disc Test mode
- VR352-2 (TEO)

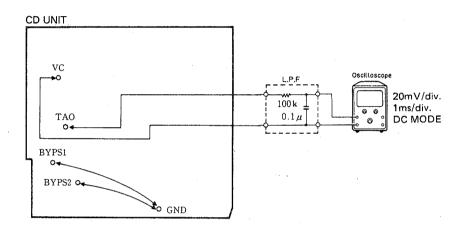


Fig. 22

- 1. Check that BYPS 1 and BYPS 2 are connected to GND.
- 2. Switch regulator ON while in test mode.
- 3. Press the 1/RAN key to close tracking.
- 4. Using VR352-2 (TEO), adjust the TAO LPF output DC voltage in reference to VC to a value of 0 ± 10mV.
- 5. Switch regulator OFF.

#### 6.6 Tracking Balance Adjustment - I

- Purpose: To adjust the tracking servo offset to zero.
- Maladjustment symptoms: Search times too long, poor playability, carriage run-away
- Measuring equipment/ iias
- jigs Measuring point
- Test disc and setting
- Adjustment position
- Oscilloscope
- TEY (Tracking error signal), low-pass filter output
- SONY TYPE 4 (or TYPE 3) Test mode
- VR351-1 (T. BAL)

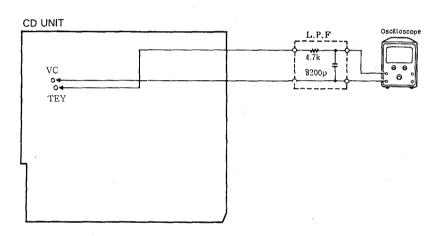
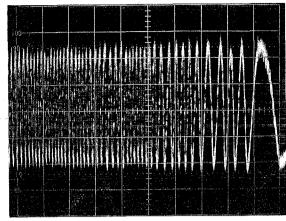


Fig. 23

#### Adjustment Procedure

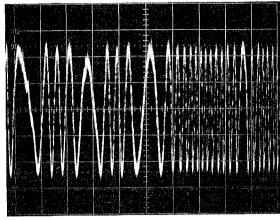
- 1. After checking that regulator is OFF, connect the low-pass filter as shown in the diagram.
- 2. Disconnect BYPS 1 and BYPS 2 from ground.
- 3. Set the test disc (SONY TYPE 4) in magazine tray 6 and load the magazine. Switch regulator ON.
- 4. Using the FF/UP or DOWN/REW key, move the pickup to about the center of the signal surface.
- 5. Press the 2/RPT key to close focus.
- Using an oscilloscope, observe the TEY signal in respect to VC. Then adjust VR351-1 (T. BAL) to set the positive and negative amplitudes to the same levels. (See Fig. 24–26)
- 7. Switch the power OFF.

The low-pass filter may be left in place for later adjustments.



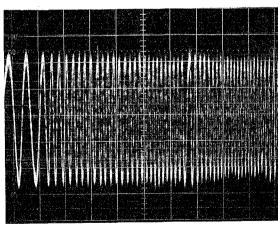
+5% NG

Fig. 24



±0% OK

Fig. 25



-5% NG

10ms/div. 0.2V/div. DC Mode Fig. 26

#### 6.7 Tangential Skew Check

- Purpose: To check whether tangential skew has been misaligned or not when replacing the pick-ip unit.
- Maladjustment symptoms: No disc playback; track jumping
- Measuring equipment/ iias
- Measuring point
- Test disc and setting
- Adjustment position
- · Oscilloscope, extension connectors, screwdriver
- RFO
- SONY TYPE 4 (or TYPE 3) Normal mode
- · Pick-up tangential adjustment screw

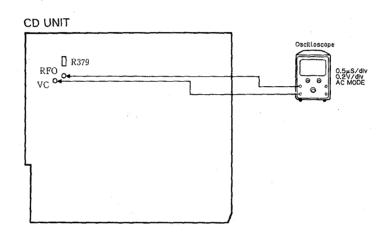
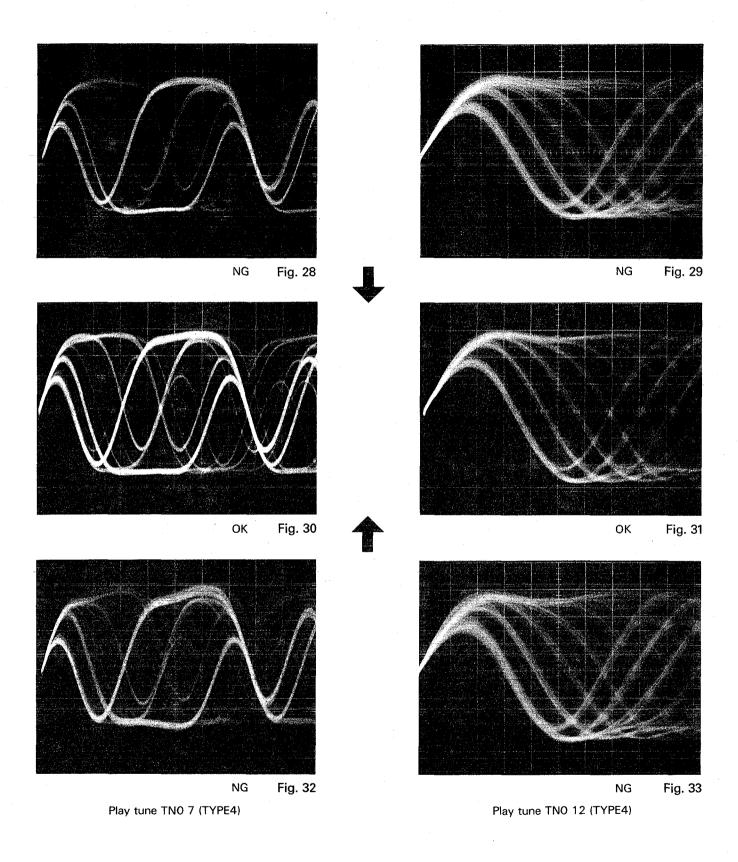


Fig. 27

### Adjustment Procedure (with R379 removed)

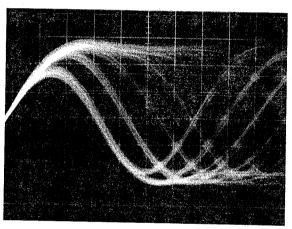
- 1. Remove R379 (but reconnect after completing adjustment).
- 2. Play tune TNO 7 in normal mode. (TYPE 3: TNO 23)
- Check that the valley at the 11T section of the RF waveform is flat.
- 4. If out of adjustment, readjust to obtain a flat RF waveform. (See Fig. 28—33) Take care not to knock the pick-up with the screwdriver at this stage. (This kind of accident can result in loss of focus.)
- 5. Switch the power OFF and reconnect R379.
- 6. Apply "screw-lock" to the tangential adjustment screw.
- 7. After adjusting tangential skew, also adjust the grating.
- 8. If tangential skew is seriously out of adjustment, carriage stopping and run-away tend to occur in normal mode. In this
  - a) Switch to test mode,
  - b) Shift the pick-up to signal surface center using FF/UP or DOWN/REW key.
  - c) Press the 2/RPT key to close focus.
  - d) Press the 1/RAN key to close the tracking.

- e) Observe RFO in respect to VC, and turn the tangential adjustment screw to obtain a flat waveform at the 11T section
- f) Repeat the adjustment resuming from step 2.

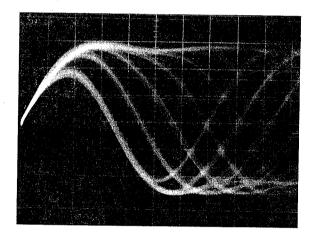


# Adjustment Procedure (without R379 removed)

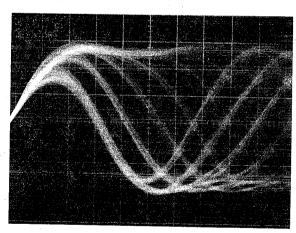
- 1. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
- 2. Turn the tangential adjustment screw to obtain a good RF waveform eye pattern. Turn the adjustment screw both clockwise and counterclockwise to points where the eye pattern deteriorates, and take the midway point as the adjustment point. As a general guide, look for an overall clear waveform, and one of the diamond shapes in the eye pattern. The diamond shapes should appear in fine lines at the point of optimum adjustment. Take care not to knock the pick-up with the screwdriver at this stage. (This kind of accident can result in loss of focus.) (See Fig. 34—36)
- 3. Apply "screw-lock" to the tangential adjustment screw.
- 4. After adjusting tangential skew, also adjust the grating.



NG Fig. 34



OK Fig. 35



NG Fig. 36

#### 6.8 Grating Adjustment

- Purpose: The grating may need adjustment in a replaced pick-up assembly.
- Maladjustment symptoms: No disc playback; track jumping
- Measuring equipment/ iias
- Measuring point
- Test disc and setting
- Adjustment position
- Oscilloscope, clock driver, grating adjustment filter (bandpass filter),
   AC millivoltmeter, two low-pass filters
- TEY, E LPF output, F LPF output
- SONY TYPE 4 (or TYPE 3) Test mode
- Pick-up grating adjustment hole

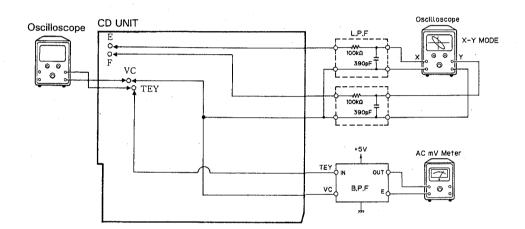


Fig. 37

- 1. Connect a low-pass filter (100k, 390p) to test points E, F, and VC as shown in the above diagram.
- 2. Switch regulator ON in test mode, and load a disc.
- 3. Press the 2/RPT key to close focus.
- 4. Press the 1/RAN key to close tracking.
- 5. Press the FF/UP or DOWN/REW key, move the pick-up to about the center of the signal surface (tune TNO 6). (TYPE 3: TNO 7)
- 6. Press the SCAN key to open tracking.
- 7. While monitoring the TEY filter output by AC milli-voltmeter, turn the grating adjustment hole slowly. The AC voltage increases and decreases while turning the screw. Search for the minimum voltage level. (This corresponds to the position where the grating is on a track, and is referred to as the null point.)
- 8. Then while monitoring TEY by oscilloscope, turn the driver slowly clockwise from the null point (as seen from under the lens) until the first waveform peak amplitude is reached. (See Fig. 39—44)

- 9. With the E low-pass filter output connected to the X axis of the oscilloscope, and the F low-pass filter output connected to the Y axis, apply an input in AC mode and observe the Lissajous figure.
- 10. Using the driver, adjust the Lissajous figure to a single line (or as close as possible).
- 11. Switch regulator OFF and remove the filters.

B.P.F.

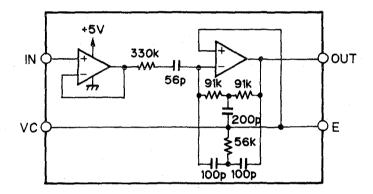
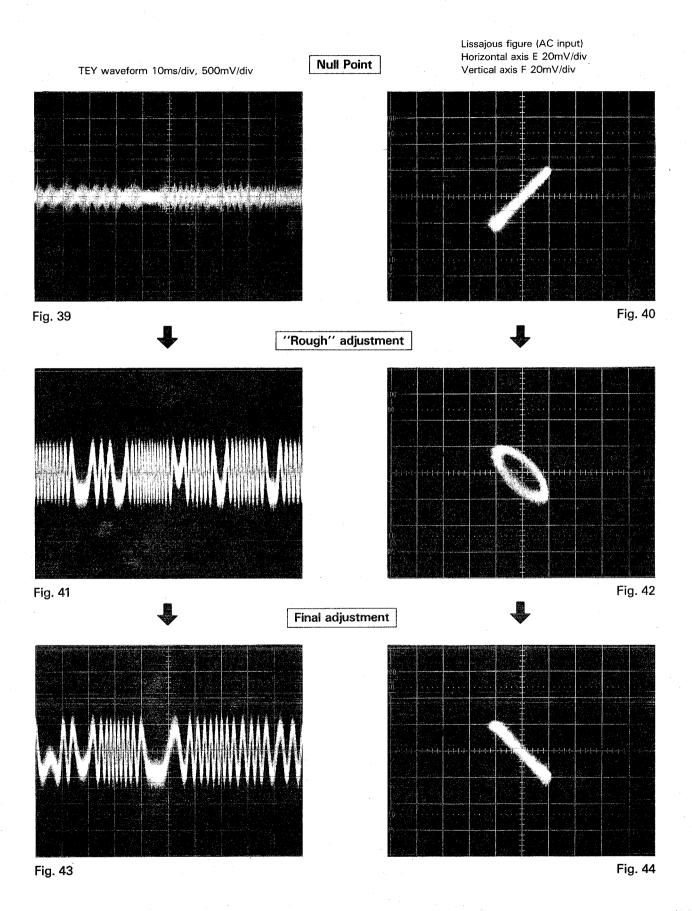


Fig. 38



#### 6.9 Focus Bias Adjustment

- Purpose: To adjust the focus servo bias to an optimum value
- Maladjustment symptoms: Focus closing difficulty, poor playability
- Measuring equipment/ iias
- Oscilloscope
- Measuring point
- RFO
- Test disc and setting
- SONY TYPE 4 (or TYPE 3) Normal mode
- Adjustment position
- VR352-1 (FEB)

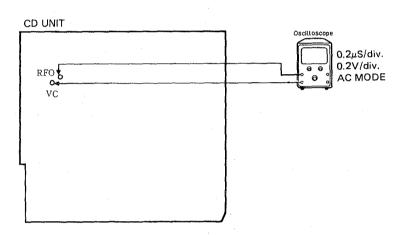


Fig. 45

- 1. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
- 2. Observe RFO in respect to VC in the oscilloscope, and adjust VR352-1 (FEB) to obtain maximum RF and optimum eye pattern. (See Fig. 46 and 47)

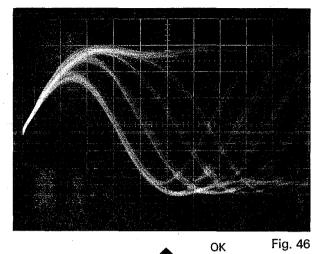
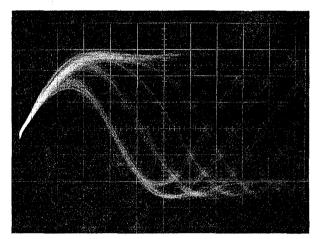


Fig. 46



0.2μs/div. 0.2V/div. AC Mode

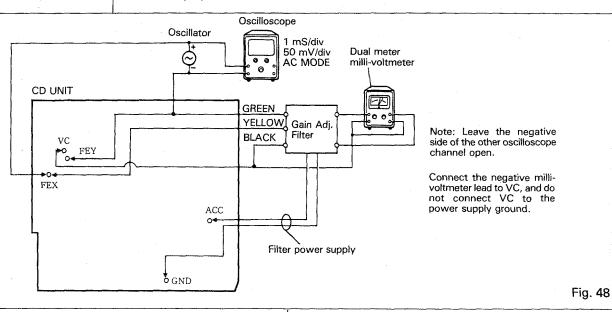
Before adjustment

Fig. 47



#### 6.10 Focus Servo Loop Gain Adjustment

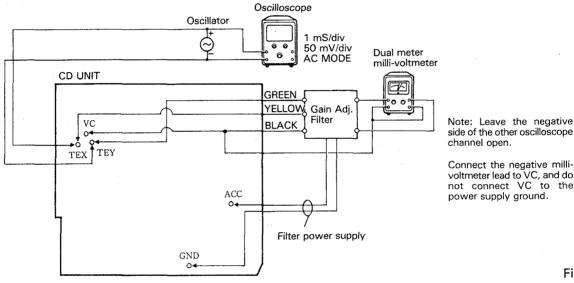
- Purpose: To adjust the focus servo loop gain to an optimum value
- Maladjustment symptoms: Poor playability, reduced resistance to vibration, focus closure fails readily
- Measuring equipment/
- Measuring point
- Test disc and setting
- Adjustment position
- · Oscillator, gain adjustment filter, dual meter milli-voltmeter Same as for CDX-2
- FEX, FEY
- SONY TYPE 4 (or TYPE 3) Normal mode
- VR351-3 (FG)



- 1. After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
- 3. Set the oscillator to 1kHz, and observe the FEX/FEY output in the oscilloscope. Adjust the oscillator output to obtain a FEX/FEY output of 200mVp-p.
- 4. Adjust VR351-3 (FG) to obtain a milli-voltmeter difference of  $0 \pm 0.5$ dB.

#### 6.11 Tracking Servo Loop Gain Adjustment

- Purpose: To adjust the tracking servo loop gain to an optimum value
- Maladjustment symptoms: Poor playability, reduced resistance to vibration
- Measuring equipment/
- Measuring point
- Test disc and setting
- Adjustment position
- · Oscillator, gain adjustment filter, dual meter milli-voltmeter
- TEX, TEY
- SONY TYPE 4 (or TYPE 3) Normal mode
- VR351-2 (TG)



Note: Leave the negative side of the other oscilloscope

voltmeter lead to VC, and do not connect VC to the

Fig. 49

- 1. After checking that the power is OFF, connect the gain adjustment filter and measuring equipment as shown in the above diagram.
- 2. Play tune TNO 12 in normal mode. (TYPE 3: TNO 14)
- 3. Set the oscillator to 1.4kHz, and observe the TEX/TEY output in the oscilloscope. Adjust the oscillator output to obtain a TEX/TEY output of 200mVp-p.
- 4. Adjust VR351-2 (TG) to obtain a milli-voltmeter difference of 0  $\pm$  0.5dB.



#### 6.12 TE Offset Adjustment - II

- Purpose: To adjust the electrical offset of the tracking servo to zero.
- Maladjustment symptoms: Search times too long, carriage run-away
- Measuring equipment/ iigs
- DC voltmeter
- Measuring point
- TAO low-pass filter output
- Test disc and setting
- No disc Test mode
- Adjustment position
- VR352-2

#### **Adjustment Procedure**

Same as for TE offset adjustment - I, but with the DC voltage of the TAO LPF output adjusted to 0  $\pm$  50mV.

The purpose of this additional adjustment is to correct any deviations generated when carrying out the tracking balance and tracking servo loop gain adjustments after completing TE offset adjustment - I.



#### 6.13 Tracking Balance Adjustment - II

- Purpose: To adjust the tracking servo offset to zero.
- Maladjustment symptoms: Search times too long, poor playability, carriage run-away
- Measuring equipment/ jigs
- Oscilloscope
- Measuring point
- TEY low-pass filter output
- Test disc and setting
- SONY TYPE 4 (or TYPE 3) Test mode
- Adjustment position
   VR351-1

#### **Adjustment Procedure**

Steps 1 thru 5 same as tracking balance adjustment-l.

- 6. Check that the level difference between the positive and negative amplitudes of the TEY signal is within 5% (See Fig. 24—26). If greater than 5%, adjust with VR351-1.
- 7. If further adjustment was necessary in step 6, repeat TE offset adjustment - II.

#### **ICs and Transistors**

2SB1243 2SD1864 2SD1226M



2SK241



2SK330 2SJ105



2SC2712 2SD1048



2SB822F



2SA1199S 2SD1468S 2SA933S



2SK435



2SA1358 2SC3421



2SC2570 2SC2753



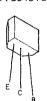
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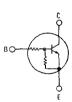
UN2111 UN2211



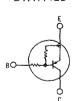
DTC124ES DTC114ES DTA124ES DTA114ES DTC343TS



DTC124ES DTC114ES



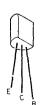
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DTC343TS



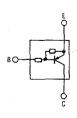
2SD667



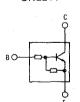
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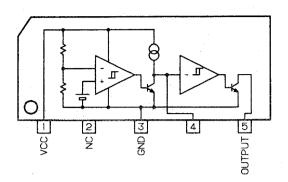
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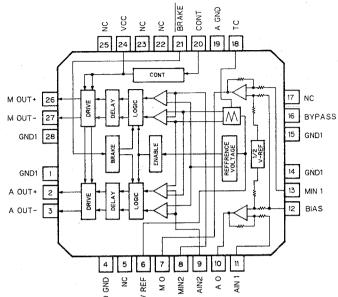
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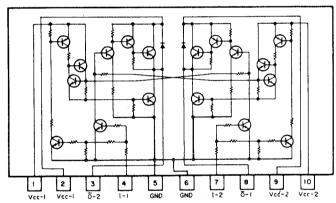
#### M51953BL



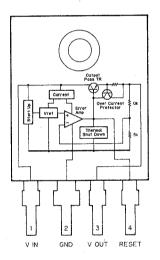
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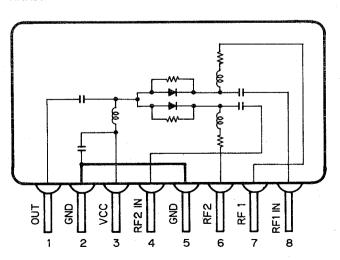
#### M54546AL



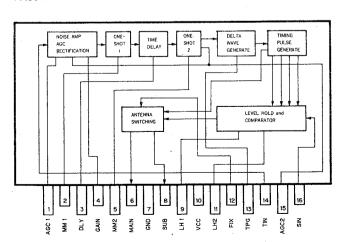
AN7805R



#### KHA805

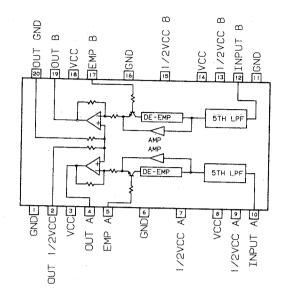


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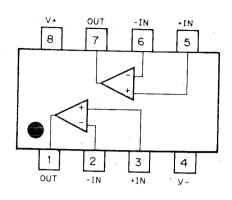


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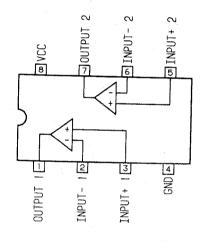
#### KHA221A



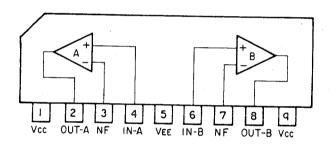
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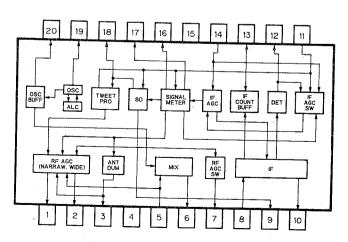
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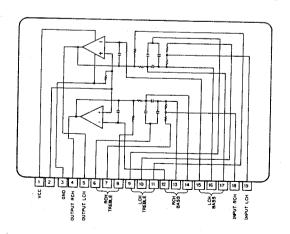
TA75558S



LA1137N

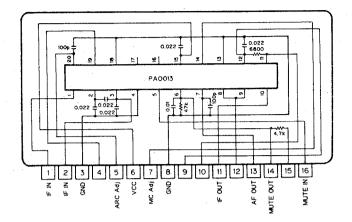


KHA125

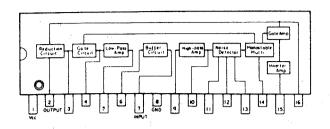


#### **DEH-K4041ZM**

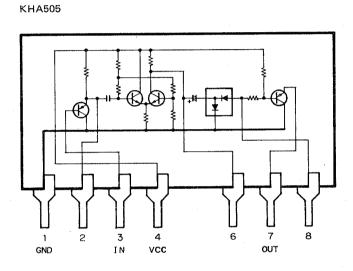
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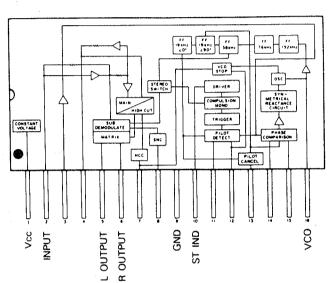


LA2110

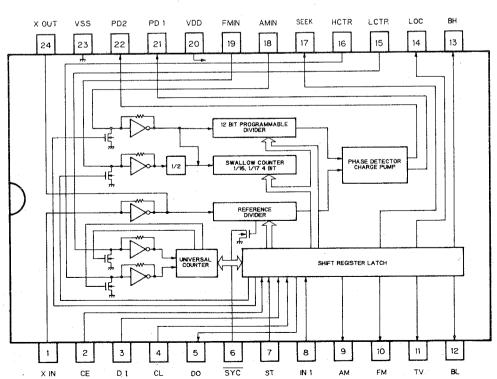


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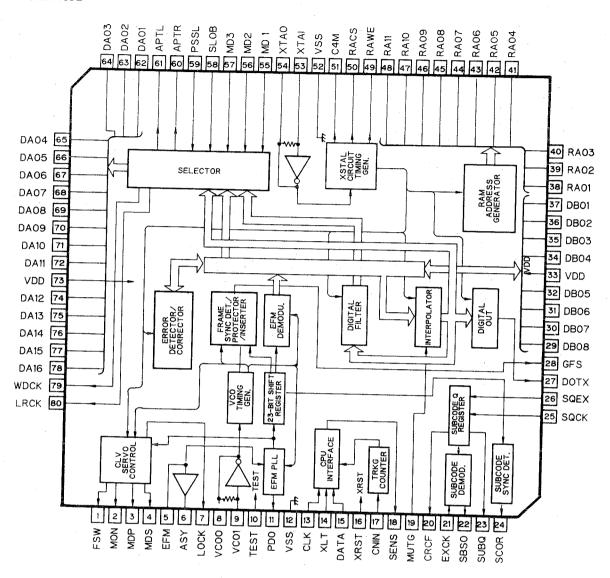




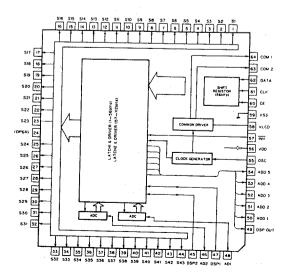
LC7218



\*CXD1135Q

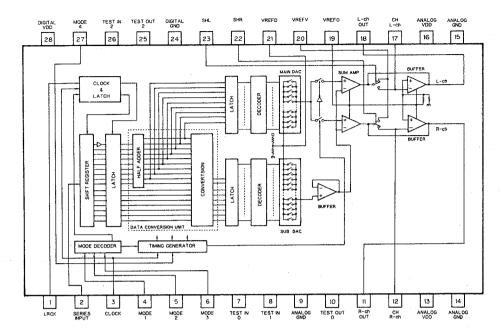


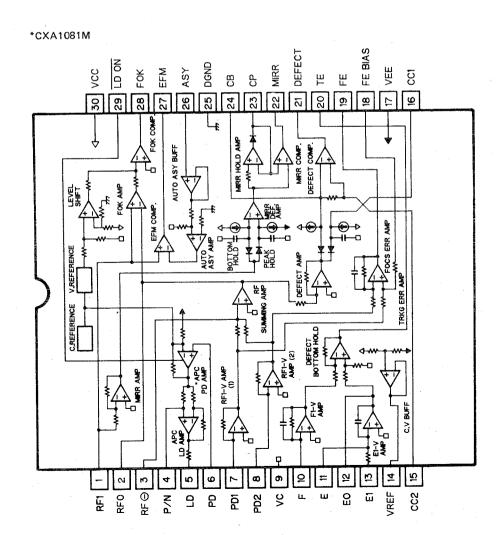
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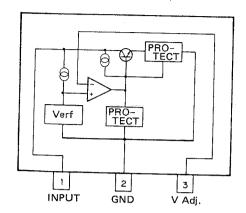
IC's marked by \* are MOS type. Be careful in handling them because they are very liable to be damaged by electrostatic induction.

 $*\mu$ PD6355G

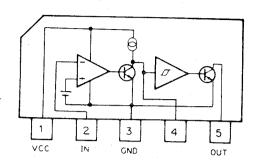




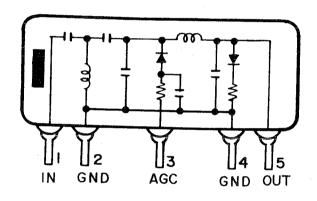
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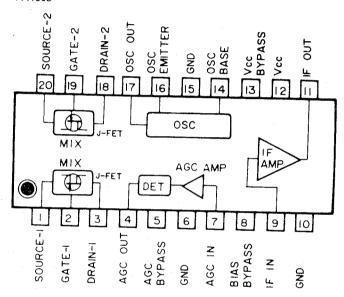
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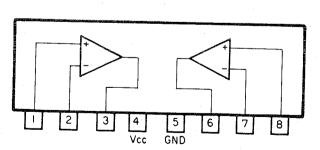
CWW1015



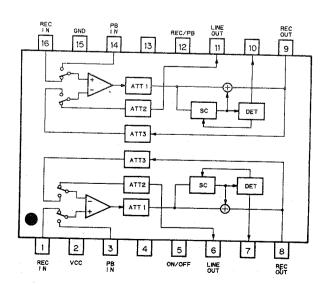
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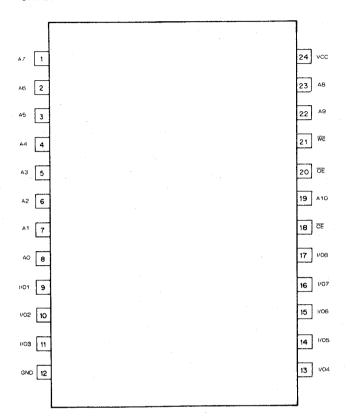
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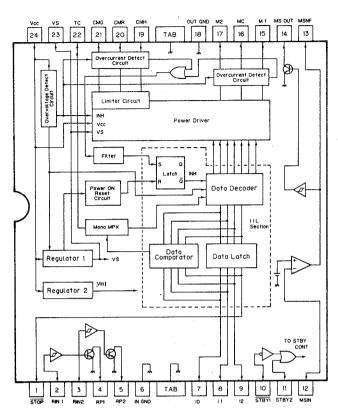
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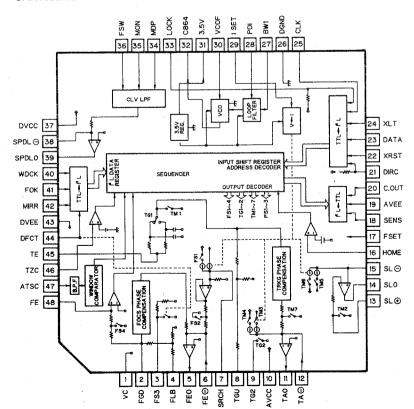
#### \*CXK5816M-15L



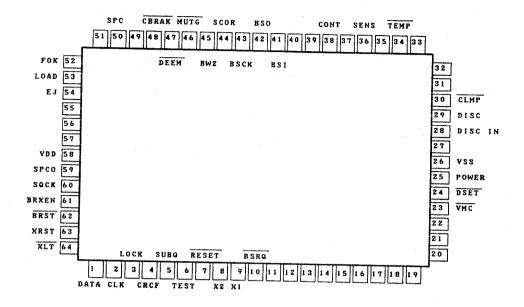
#### PA3022A



#### \*CXA1082AQ



\*PD4136B

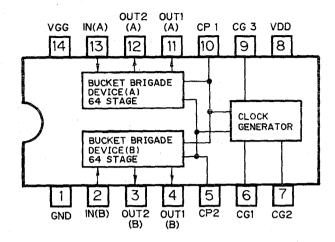


Pin Functions (PD4136B)

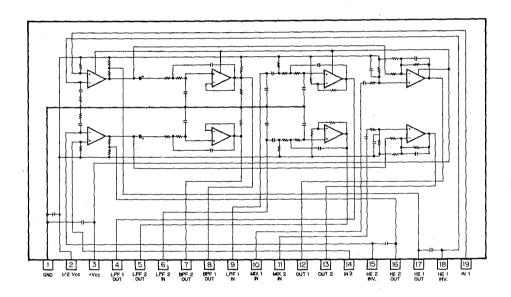
Pin No.	Pin Name	1/0	Function and Operation
1	DATA	CMOS IN	Serial data output
2	CLK	CMOS OUT	Serial data clock output
3	LOCK	CMOS IN	Spindle lock monitor "H"=Lock
4	CRCF	CMOS IN	CRC check result input "H"=CRC OK
5	SUBQ	CMOS IN	Sub-code data input
6	TEST	CMOS IN	Test input
7	RESET	CMOS IN	Reset input
8	X 2	CMOS OUT	Oscillator output
9	X 1	CMOS IN	Oscillator input
1 0	BSRQ	CMOS OUT	Service request line "L"=Request
2 3	VMC	CMOS OUT	Loading power supply control
2 4	DSET	CMOS OUT	Disc set LED control
2 5	POWER	CMOS OUT	Regulator ON/OFF control "H"=Regulator ON
2 6	VSS		Ground
2 8	DISC IN	CMOS IN	Door switch input "H"=Door open

Pin No.	Pin Name	I/0	Function	Function and Operation							
2 9	DISC	CMOS IN	Disc sensor input	lisc sensor input "H"=Disc loaded							
3 0	CLMP	CMOS IN	Disc clamped input	Disc clamped input "L"=Disc clamped							
3 4	TEMP	INPUT	ligh temperature detector								
3 6	SENS	CMOS IN	CD LSI internal status mo	D LSI internal status monitor input							
3 8	CONT	CMOS OUT	PWM driver ON/OFF	WM driver ON/OFF "H"=ON							
4 1	BSI	CMOS IN	Bus data input	dus data input							
4 2	BSO	CMOS OUT	Bus data output	us data output							
4 3	вѕск	IN/OUT	Bus serial clock	Bus serial clock CMOS Input/Output							
4 4	SCOR	CMOS IN	Sub-code synchronization	Sub-code synchronization input							
4 5	BW2	OUTPUT	Spindle motor output filter time constant selection output ligh resistivity N channel open drain								
4 6	MUTG	OUTPUT	Muting output "L"=Mute ON								
4 7	DEEM	OUTPUT	Emphasis selector output "H"=Emphasis ON High resistivity N channel open drain								
4 8	CBRAK	оитрит	PWM driver brake control	PWM driver brake control "L"=Brake ON							
5 0	SPC	CMOS IN	Spindle motor rpm indicat	or	"L"=Lo	ow speed					
5 2	FOK	CMOS IN	Indication that focus is	closed	and RF	input is ac	tive				
5 3	LOAD	OUTPUT	Motor drive output	LOAD	Н	L	Н				
5 4	EJ		H: -L: - 4:: 4	EJ	L	Н	Н				
		-	High resistivity N channel open drain		Load	Eject	Stop				
5 8	VDD										
5 9	SPCO	CMOS OUT	Spindle motor rpm sensor	circu	it ON/OF	<b>የ</b>					
6 0	SQCK	CMOS OUT	Sub-code clock								
6 1	BRXEN	CMOS OUT	Bus reception enable outp	out "	Hi-Z"= R	eception en	able				
6 2	BRST	CMOS IN	Bus reset								
6 3	XRST	CMOS OUT	CD LSI reset output	"L"	=Reset						
6 4	XLT	CMOS OUT	Serial data latch output								

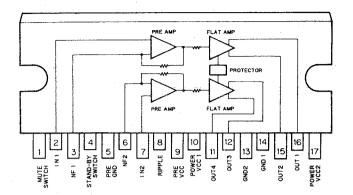
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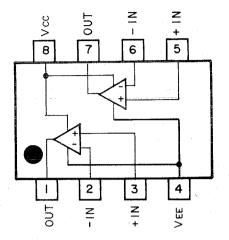
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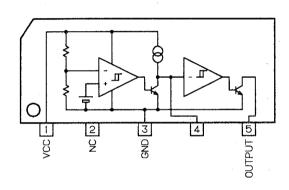
### TA8215H



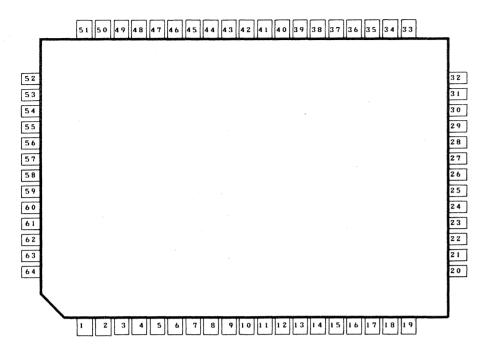
### NJM4558MD NJM2068MD



#### M51953BL



\*PD4155B



### • Pin Functions (PD4155B)

Pin	Pin Name	I/O	Output Format	Standby	Function and Operation
1	PCE	0	С		PLL IC (LC7218) Chip enable
2	NR	0	С	L	Dolby NR switching
3	LINH	0	С		LCD driver (LC7582) inhibit output
4	LCK	0	С		LCD driver (LC7582) clock line
5	LDT	0	С		LCD driver (LC7582) data output
6	LCE	0	С		LCD driver (LC7582) chip enable
7	RESET	1			Reset signal input pin
8	X2				Clock generator pin
9	X1				Clock generator pin
10	PLAY	0	С	L	MS filter switching
11	СМ	0	С	L	Capstan motor control
12	NES	ı			Forward side reel unit ratation pulse pin.
13	RES	ı			Reverse side reel unit ratation pulse pin.
14	STBY1	0		L	PA3022 standby output pin.
15	12	0		L	
16	l <sub>1</sub>	0		L	Mechanism control data output pin. Outputs control data for the mechanism driver IC (PA3022)
17	lo	0		L	(1 73022)
18	MD3	ı			
19	MD2	i			Mechanism switch input pin.
20	MD1	ı			Mechanism switch input pin.
21	MDO				

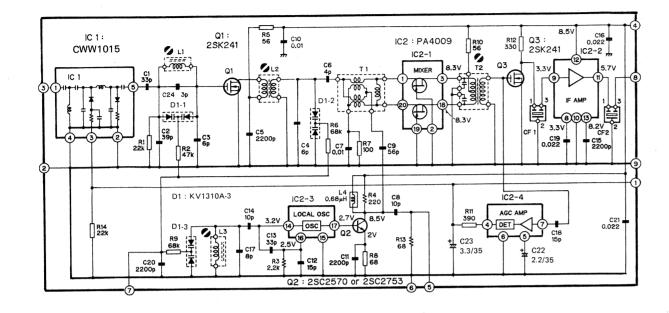
Pin	Pin Name	I/O	Output Format	Standby	Function and Operation
22	MST2	0		L	
23	MST1	0		L	Mechanism switch strobe output pin.
24	MST0	0		L	
25	METAL	0		L	Equalizer switch output pin.
26	VSS				GND
27	BSENS	ı			Backup voltage detection input pin.
28	ASENS	ı			ACC voltage detection input pin.
29	MS	1			Music signal input pin.
30	PWSW	1			TUNER power on/off input pin.
31-33	NC				
34	SDLEV	ı			TUNER SD level detection input.
35	LOCIN	1			During AM opration, detects illumination voltage and switches LOC/DX.
36	PCLCNT	1			Clock output authorization input
37	MUTE		С	Н	Mute output pin.
38	PCL/TUNANT	0	С	H/L	Clock output/TUNER antenna output pin.
39	PEE	0	С		Key touch beep output pin
40	SYSPW	0	C	L	Power amplifier ON output pin.
41	BSI	1			Bus data input pin
42	BSO	0			Bus data output pin
43	BSCK	1/0		-	Communications clock input/output pin.
44	BSRQ	J			Data communications serial poll request.
45	TAPPW	0	NM	H (Hiz)	DECK power supply control
46	TUNPW	0	NM	H (Hiz)	TUNER power supply control
47	KST1	0	NM	Hiz	Key matrix strobe output.
48	KST0	0	NM	Hiz	Key matrix stroe output.
49-52	KST5-KST2	0	NM	Hiz	Key matrix strobe output.
53-56	KD3-KD0	1			Key matrix return input.
57	NC				
58	VDD				
59	DISB	0	С	H/L	AUX operation disable
60	BRST	0	С	L	Bus reset
61	AUX IN	1			AUX operation input
62	PDI	1			LC7218: Data input
63	PCK	0	С		LC7218: Clock
64	PDT	0	С		LC7218: Data output

Output format	Meaning
С	C-MOS
NM	Neutral resistivity N channel open drain

• FM FF



### • FM FRONT END (CWB1005)

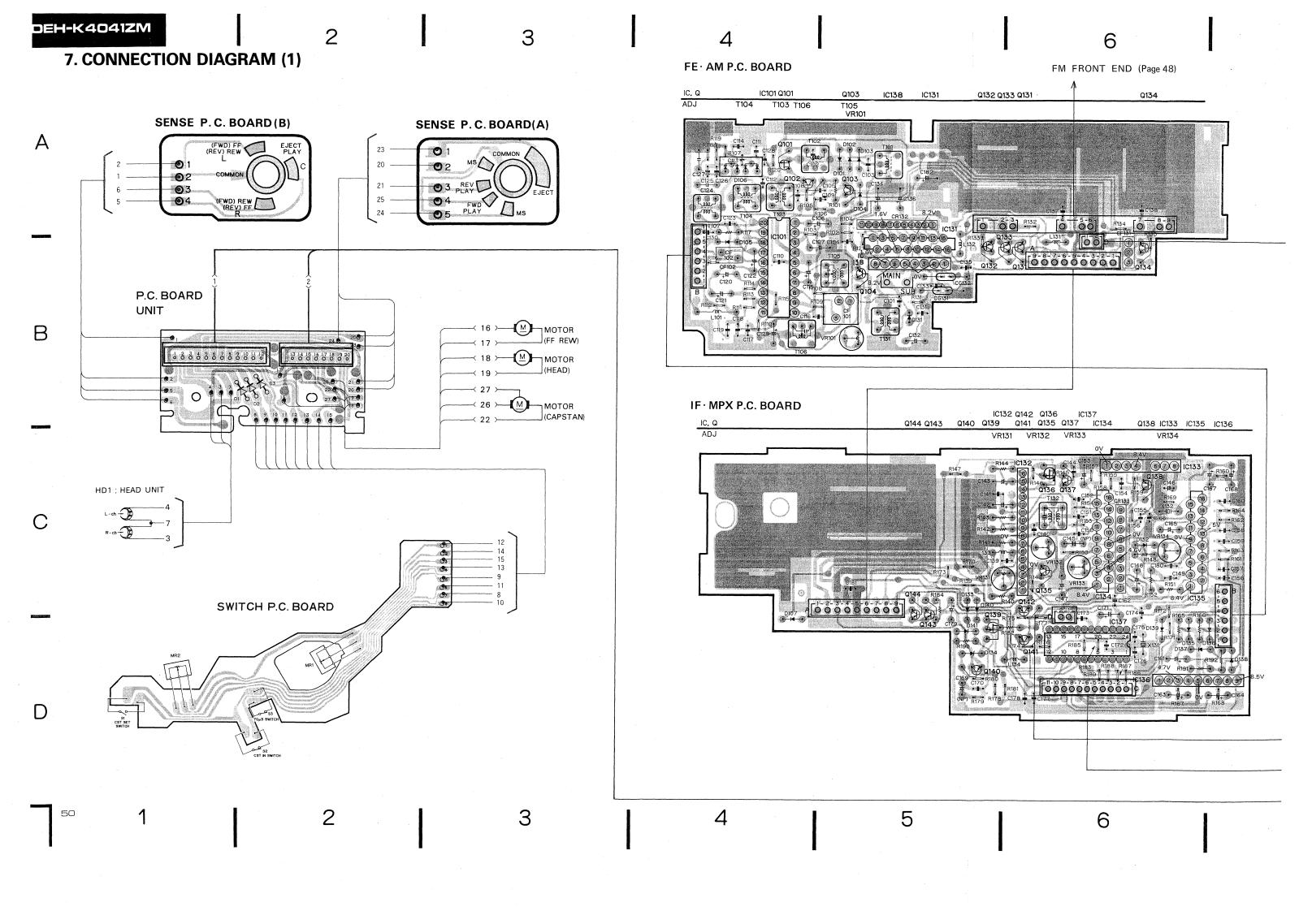


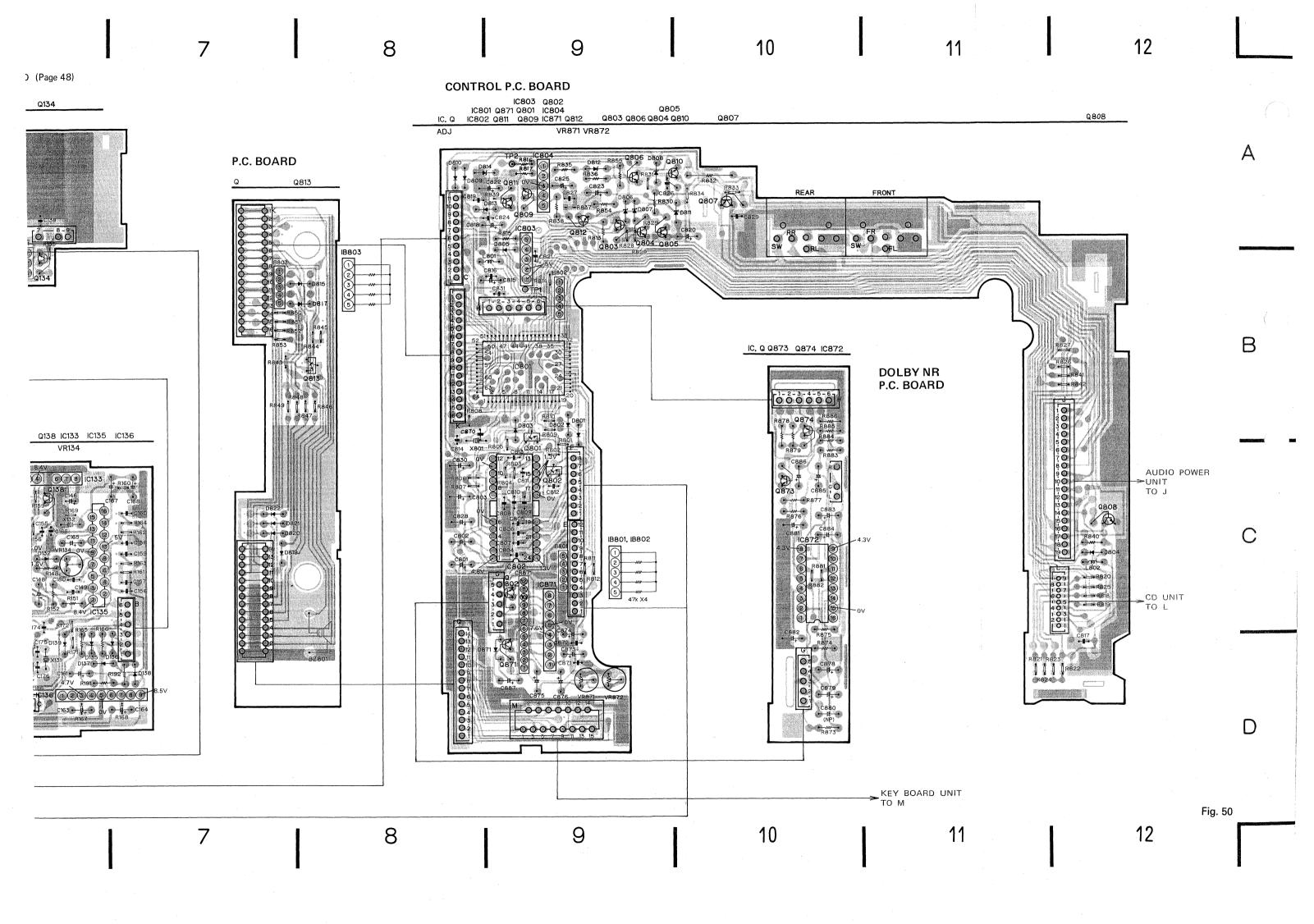
Q,1C	IC1 Q1		Q2 I	C2	Q3
ADJ. L		L2		Т2	L3
R1 C2 22k 3p R2 L1 00 C1	10.10000000000000000000000000000000000	C5 00 00 00 22.000 1	223 33/25 B11 22/ 3990 H 102 3990 H 102 3990 H 102 3990 H 103 3990 H 202 200 p	C19 0022 2 00022 2 0002 2	018 15p CF2 3

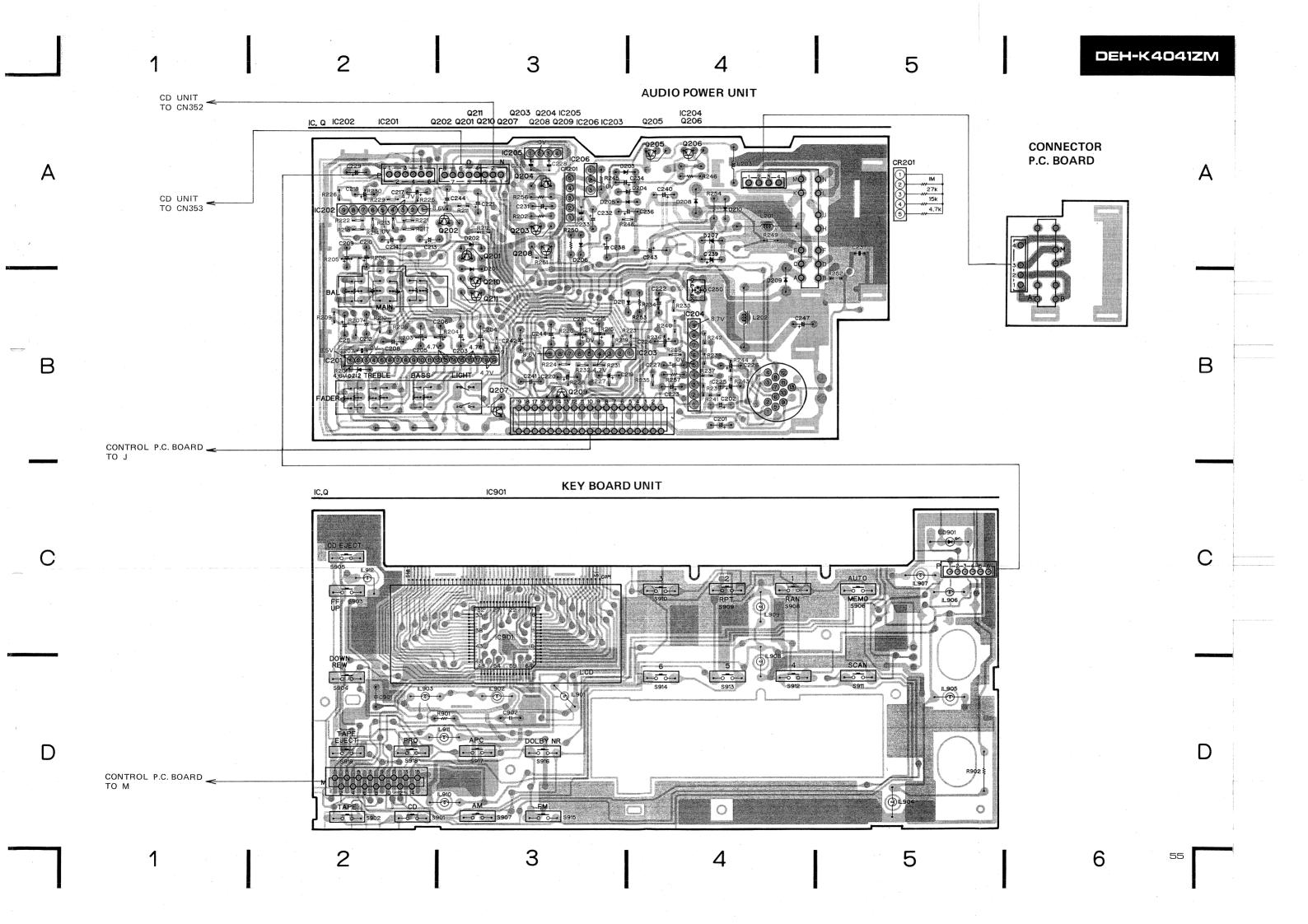


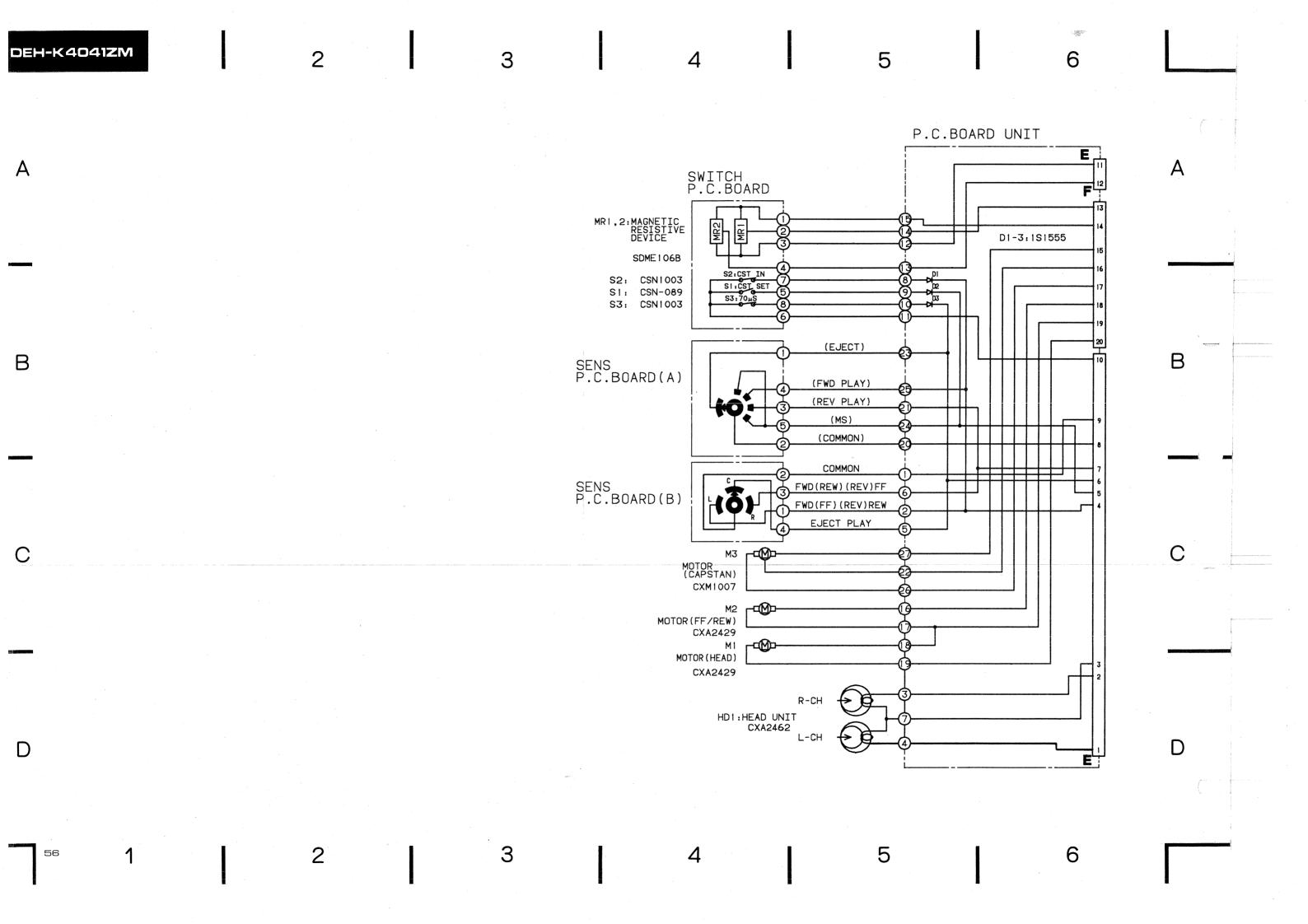
### ● Circuit Diagram Symbols

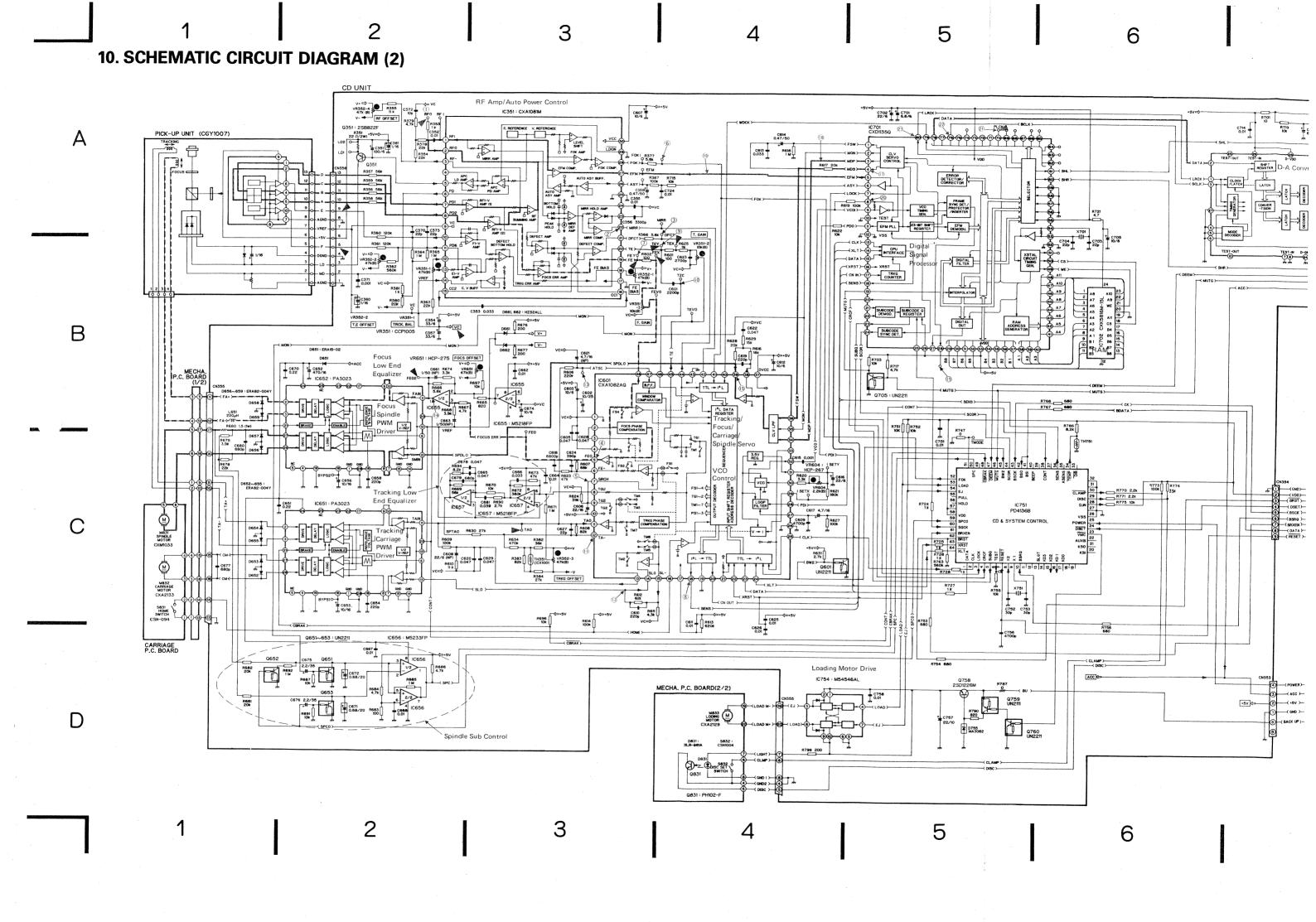
Symbol	Function	Symbol	Function
A	1/4 division detector output used in detection of	FEO2	Focus 2 (IC655 pin no.1)
	RF and focus signal	FLOAT	Carriage mechanism play position detector signal
ACC	14.4V	НОМЕ	Home position detector signal (pick-up at home position when "L")
AGND	Analog ground	1814	Motor control signal 1
ASY	Asymmetry	IN1	
ATSC	Anti-shock (carriage motor control during playback)	IN2	Motor control signal 2
В	1/4 division detector output used in detection of RF and focus signal	IN3 ISETY	Motor control signal 3  ISET resistance pin (IC601 pin no.31)
BATT	14.4V (Constant power supply)	LAMP	Photo-interrupter drive signal
BDATA	Bus data signal	LD	Laser diode
BRST	Bus reset signal	LOAD	Disc loading power supply ON/OFF signal
BRXEN	Bus line busy signal	MON	Motor ON (spindle forward or reverse when "H")
BSCK	Bus synchronizing shift clock	MD	Monitor diode
BSRQ	Bus service request line	MUTG	Mute signal (muting ON when "L")
BYPS1	Bypass 1 (non-drive enabled by connecting to	POWER	Power supply control signal
	ground during PWM IC651 operation)	REG5	+5V
BYPS2	Bypass 2 (non-drive enabled by connecting to	SLO	Carriage output signal (IC601 pin no.14)
	ground during PWM IC652 operation)	SM+	Spindle motor drive signals (PWM OUT)
C	1/4 division detector output used in detection of RF and focus signal	SM -	opinale meter and eighted (1 thm 2 e t)
CBRAKE	PWM driver brake control signal (brake on when ''L'')	SPC	Spindle motor rpm detector signal (low speed when ''L'', IC656 pin nos.1 & 7)
CLAMP	Disc set detect signal	SPCO	Spindle brake (spindle brake when "H", IC751
CM+	Carriage motor drive signal (PWM OUT)		pin no. 59)
CM-		SPDLO	Spindle motor error signal (IC601 pin no.39)
CONT	PWM driver ON/OFF signal (ON when "H")	SPTAO	Tracking side path signal output
D	1/4 division detector output used in detection of	SMIN	Spindle motor drive PWM input signal
	RF and focus signal	STBY	Standby position detector signal
DEEM	Emphasis selector switch (emphasis ON when "H")	TA+	Tracking actuator drive signals (PWM OUT)
DFCT	DEFECT signal ("H" when defect)	TA-	
DGND	Digital ground	TAIN	Tracking actuator drive PWM input signal
DISC	Disc presence detector signal	TEND	Mechanism clamped switching line
E	Tracking signal start detector	TGU	Tracking side path input
EFM	8-14 modulation	TIG	Switch ground
EJ	Eject key	TOG	Switch ground
END	Carriage mechanism END position detector signal	TZC	T.E zero-cross signal
F	Tracking signal end detector	VC	Signal reference voltage (2.5V)
FA+	Focus actuator drive signal (PWM OUT)	VREF	Signal reference voltage buffer output (2.5V)
FA-			
FAIN	Focus drive PWM input signal	_	•
FEO	Focus signal output (IC601, CXA1082AQ pin no.5)		



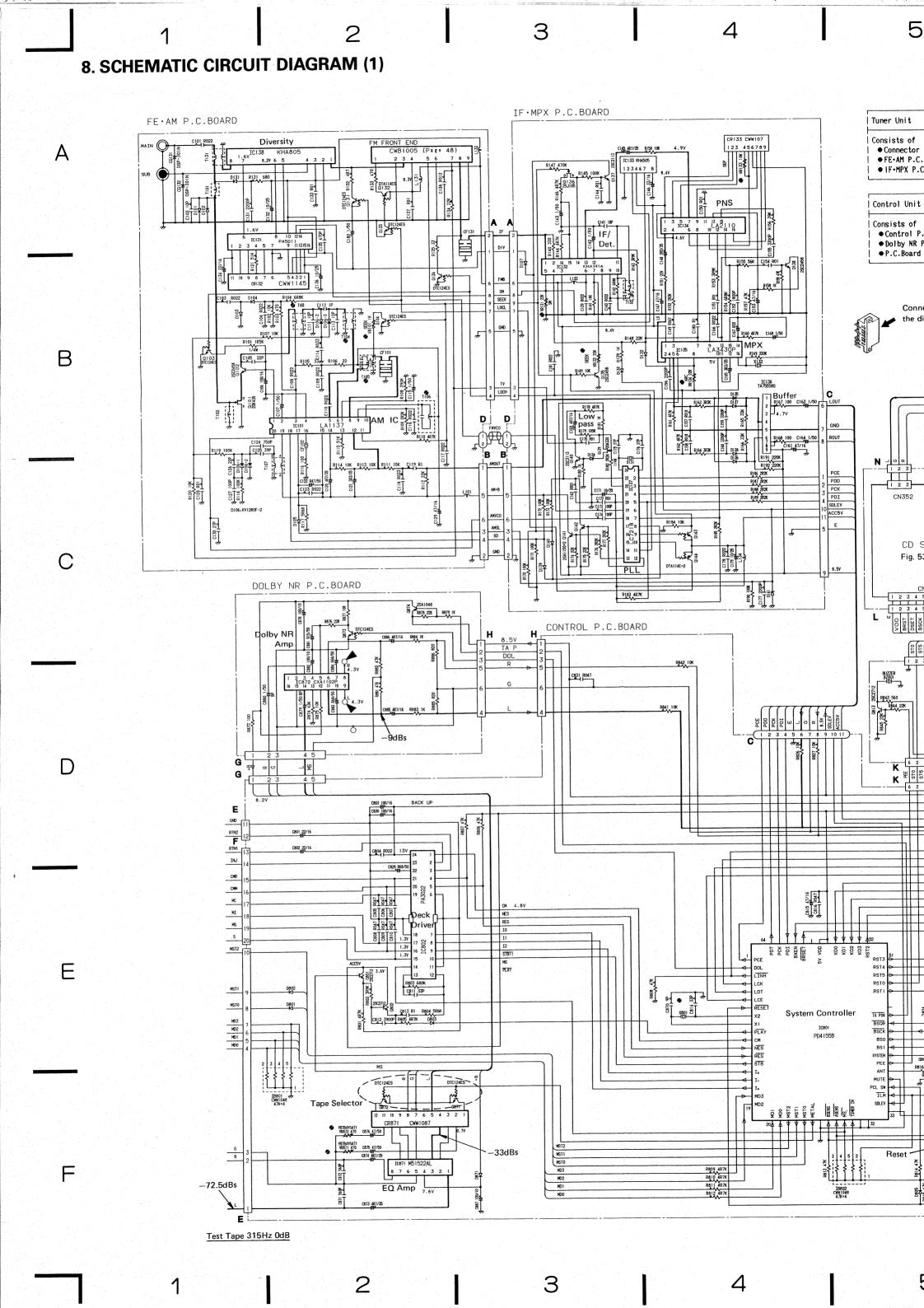


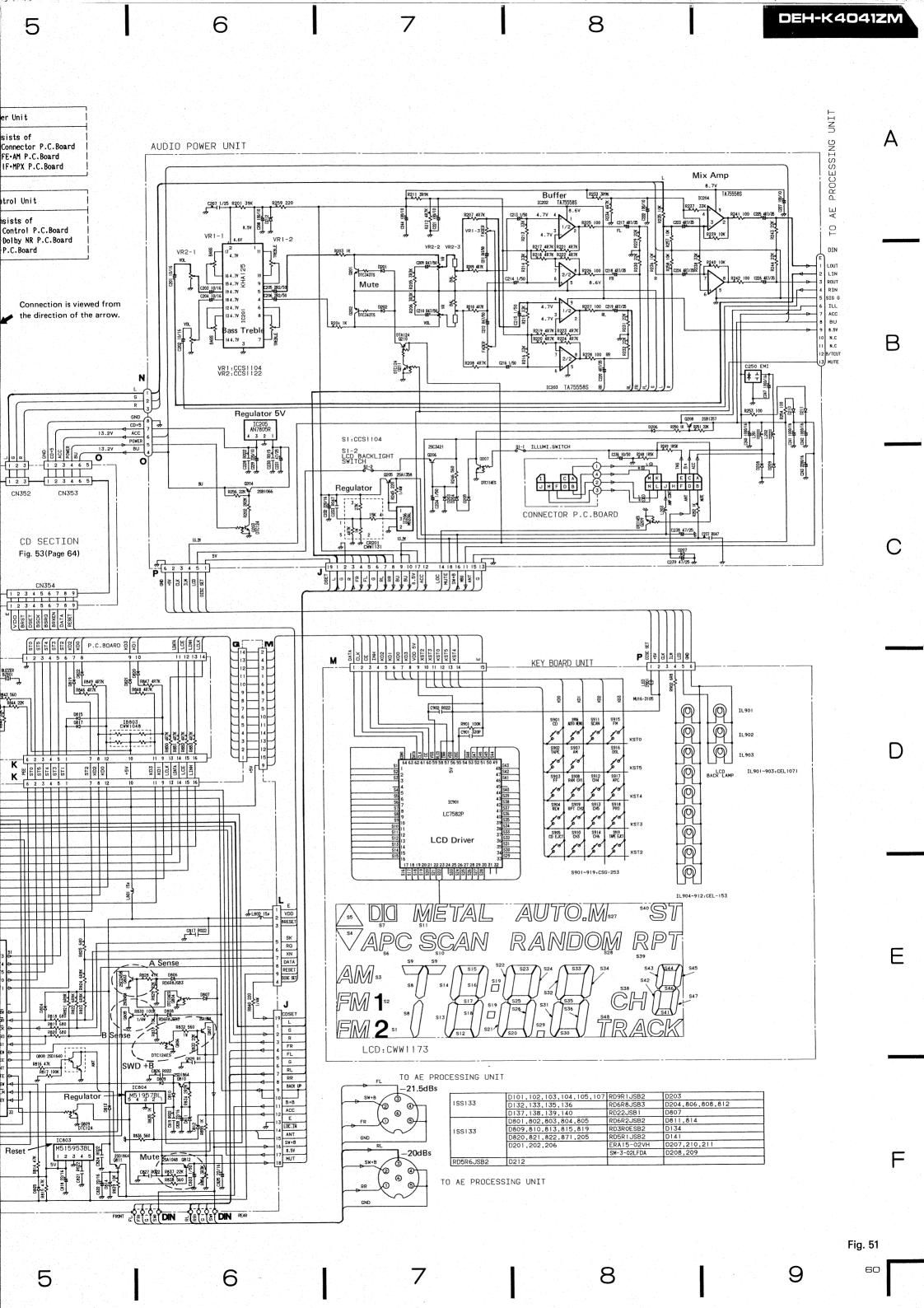




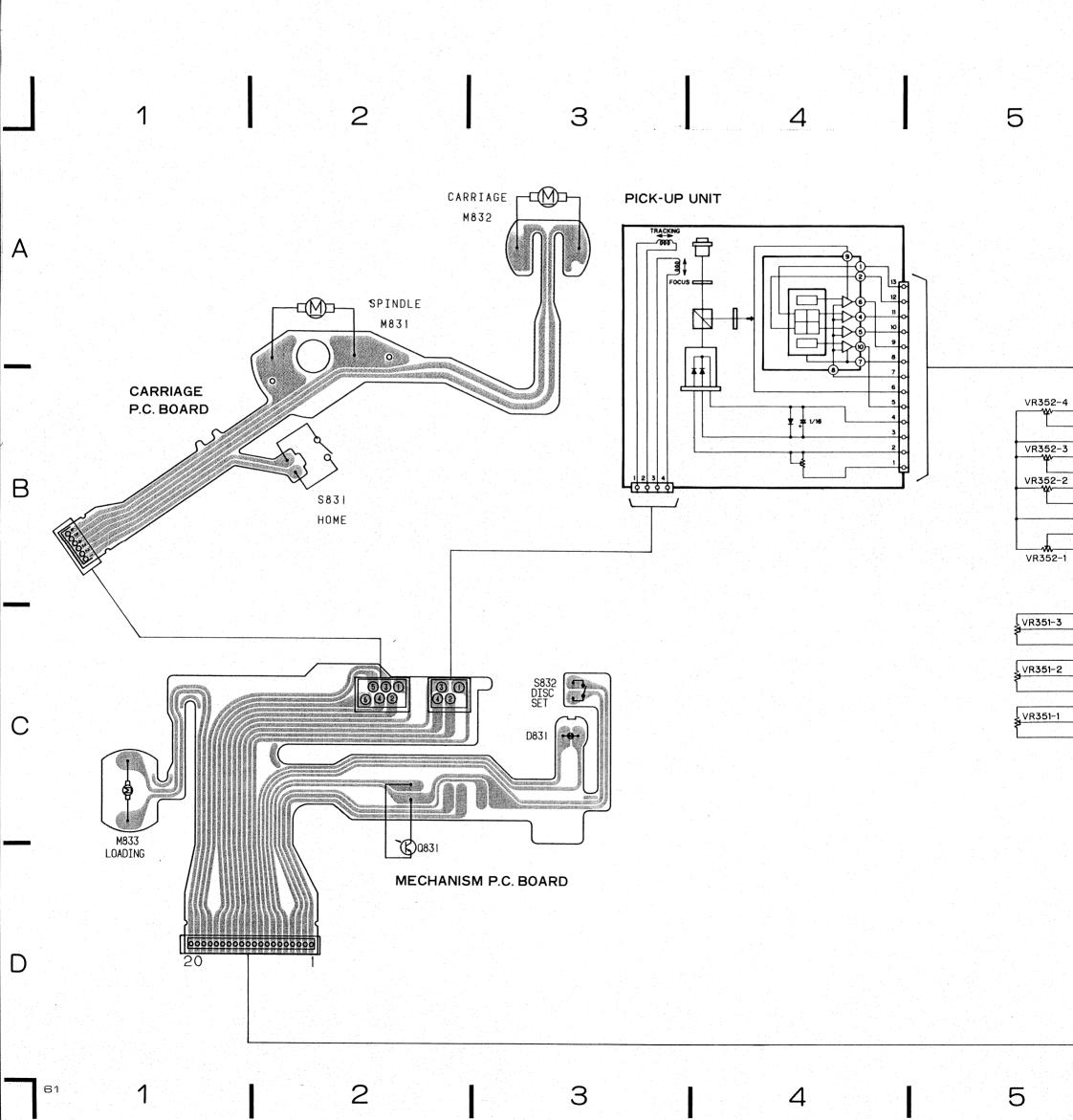


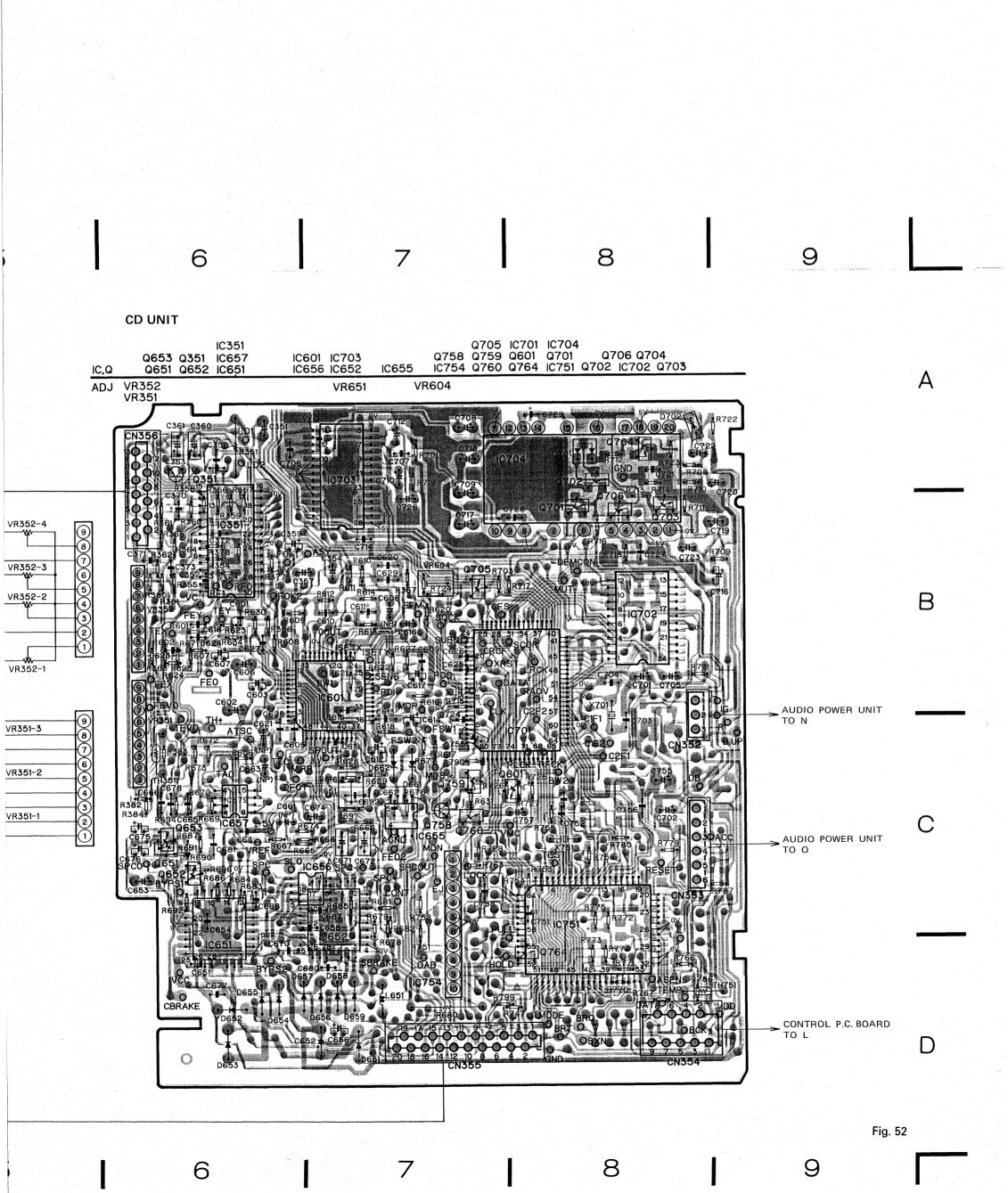
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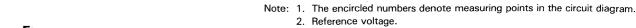


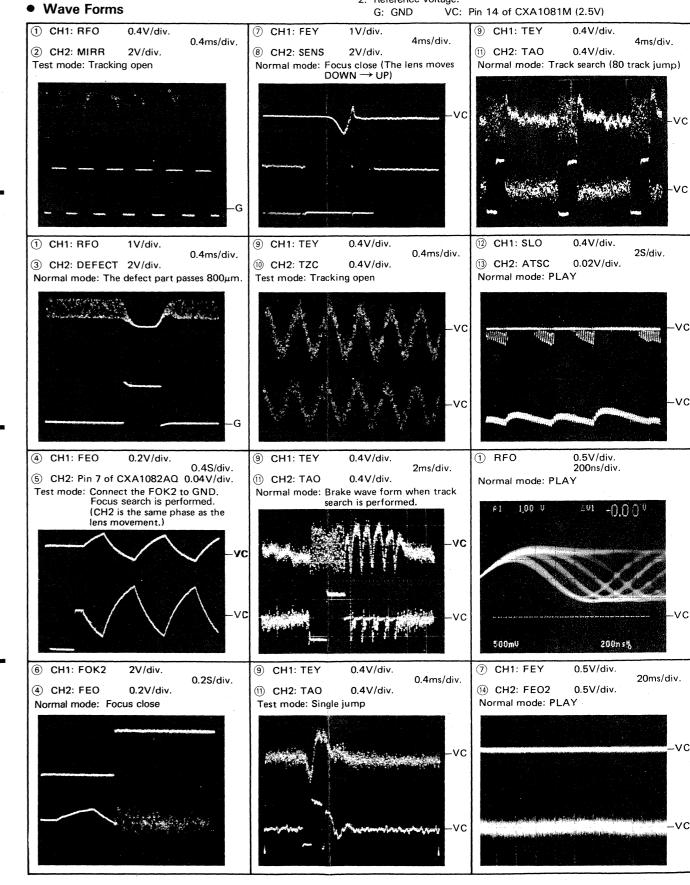


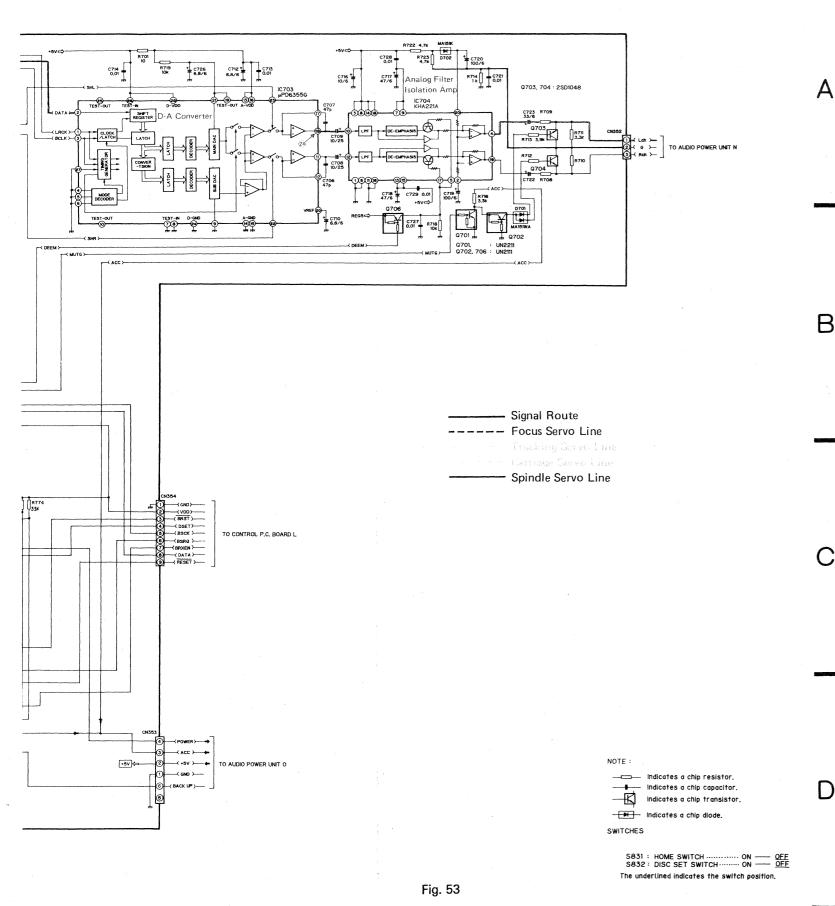
## 9. CONNECTION DIAGRAM (2)

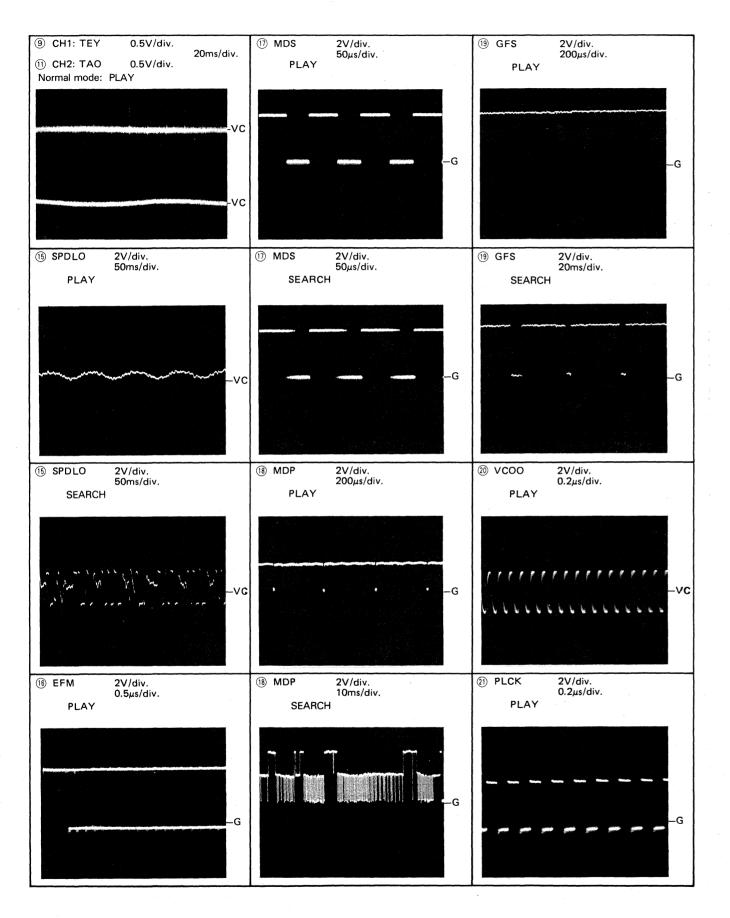


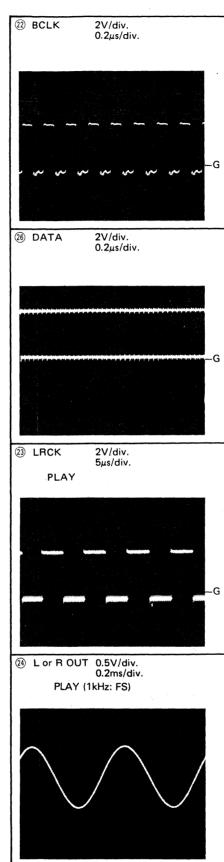












11. SCH

● AE ● DEI

Α

В

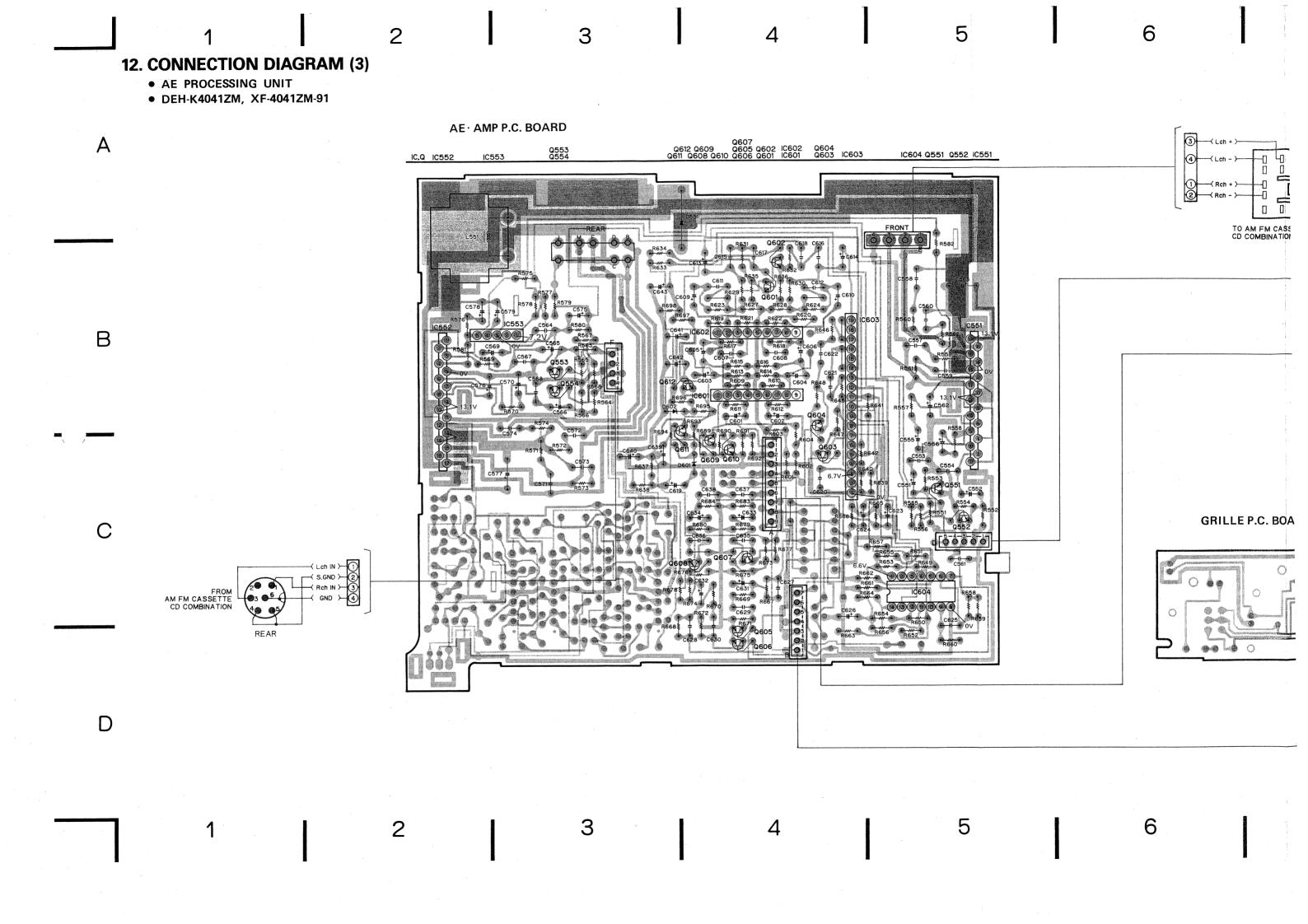
AM FM

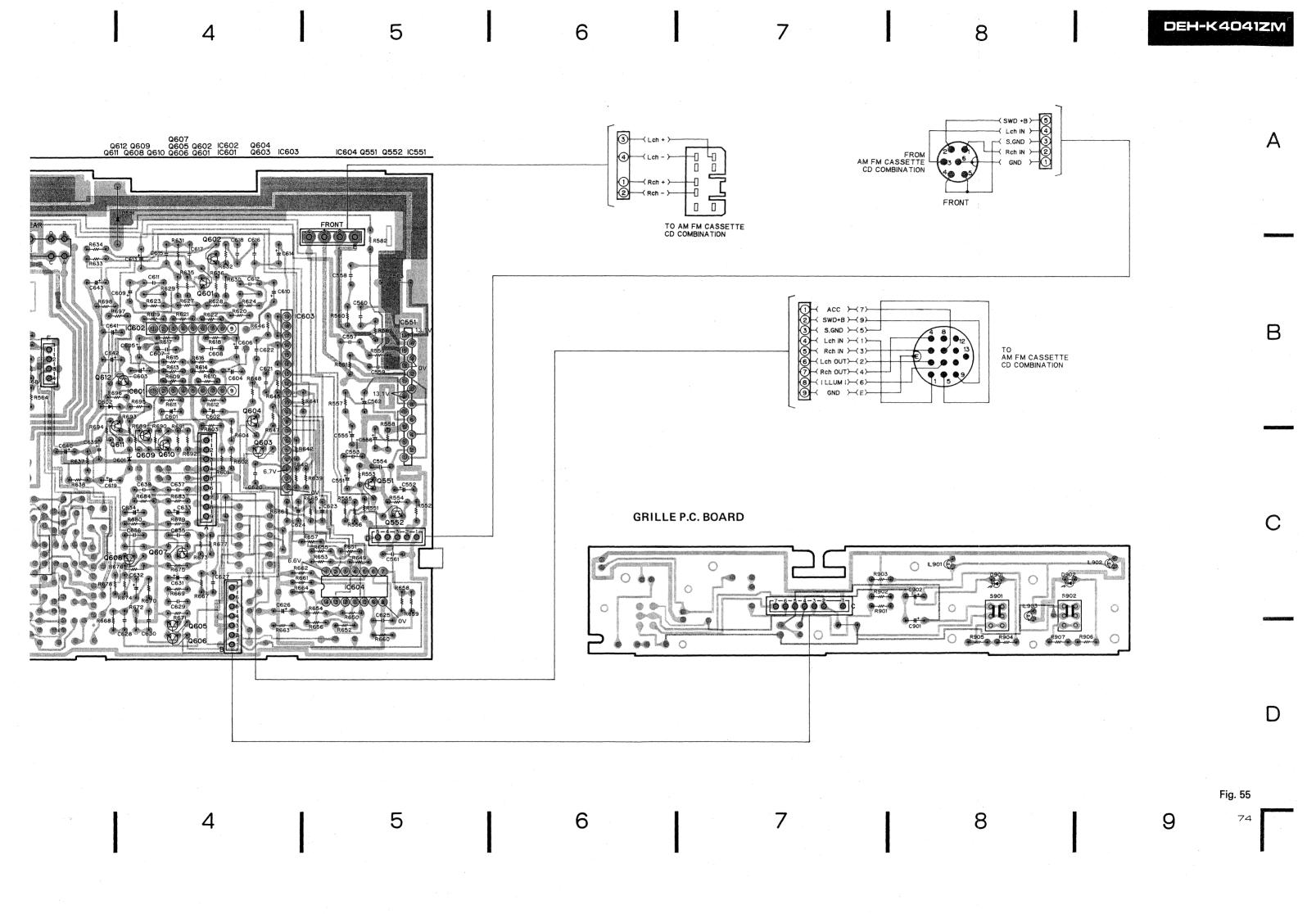
50000000

AM FI

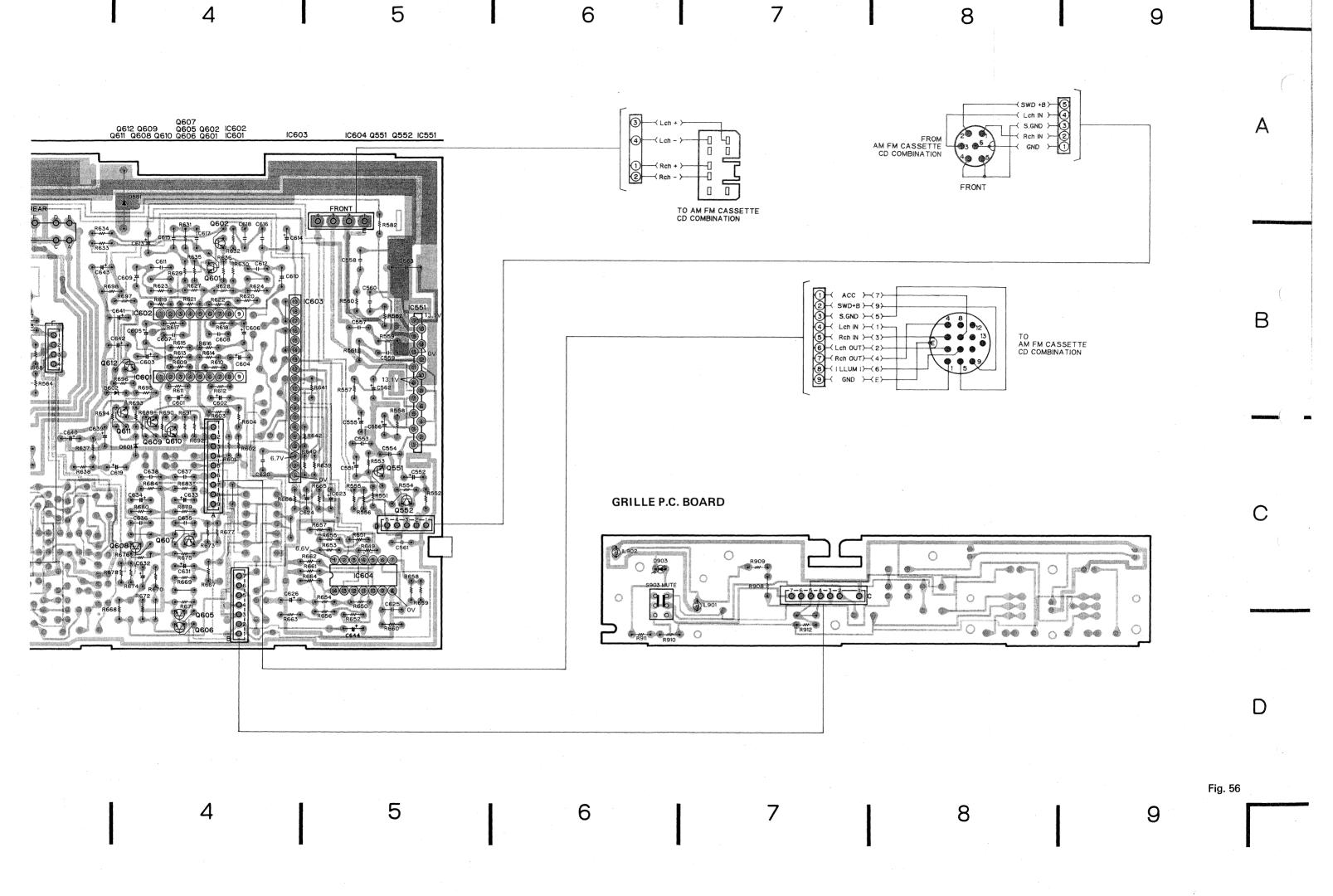
D

3 11. SCHEMATIC CIRCUIT DIAGRAM (3) 6 • AE PROCESSING UNIT • DEH-K4041ZM, XF-4041ZM-91 Α AE · AMP P.C.BOARD IC601, 602 : TA75558S Q607. 608 : 2SA1048 R601 C601 15k 1/50 Q605 8.2k R683 - C637 33k 7 2200p C635 0.018 Low cut filter В R647 330K IC604 : MN3003 В Regulator Regulator IC553 R578 \$ ₹8697 ₹330 0553, 554 : 2SD1468S D601: MTZ7R5B Q610: 2SC2458 C TO CAR HARNESS R580 \$ # C575 47k 10/16 ON O-7 R904 \$ 270 GRILLE P.C.BOARD S901, 902: PASSENGER SWITCH AE, AMP Unit TO AM FM CASSETTE D Consists of · AE, AMP P.C. Board D · Grille P.C.Board Fig. 54 3 5 6





6 **DEH-K4041ZM** 13. CONNECTION DIAGRAM (4) • AE PROCESSING UNIT • DEH-K4141ZM, XF-4141ZM-91 AE · AMP P.C. BOARD IC.Q IC552 IC553 TO AM FM CAS В GRILLE P.C. BOARD FROM AM FM CASSETTE CD COMBINATION D



**DEH-K4041ZM** 3 14. SCHEMATIC CIRCUIT DIAGRAM (4) • AE PROCESSING UNIT • DEH-K4141ZM, XF-4141ZM-91 AE · AMP P.C.BOARD IC601, 602 : TA75558S Q607, 608 : 25A1048 R641 R639 6.7V R673 ≹R677 Buffer R683 ₹ C637 TO AM FM CASSETTE CD COMBINATION Low cut filter В В IC604 : MN3003 Regulator IC553 : M51953BL Regulator Power amp OFF TO CAR HARNESS R580 \$ # C575 47k # 10/16 1 C564 1 0.01 Q551, 552 : 2SD1468S GRILLE P.C.BOARD AE, AMP Unit TO AM FM CASSETTE Consists of D D · AE, AMP P.C. Board · Grille P.C.Board Fig. 57 3 5 79 6

## 15. CD MECHANISM EXPLODED VIEW

#### NOTE:

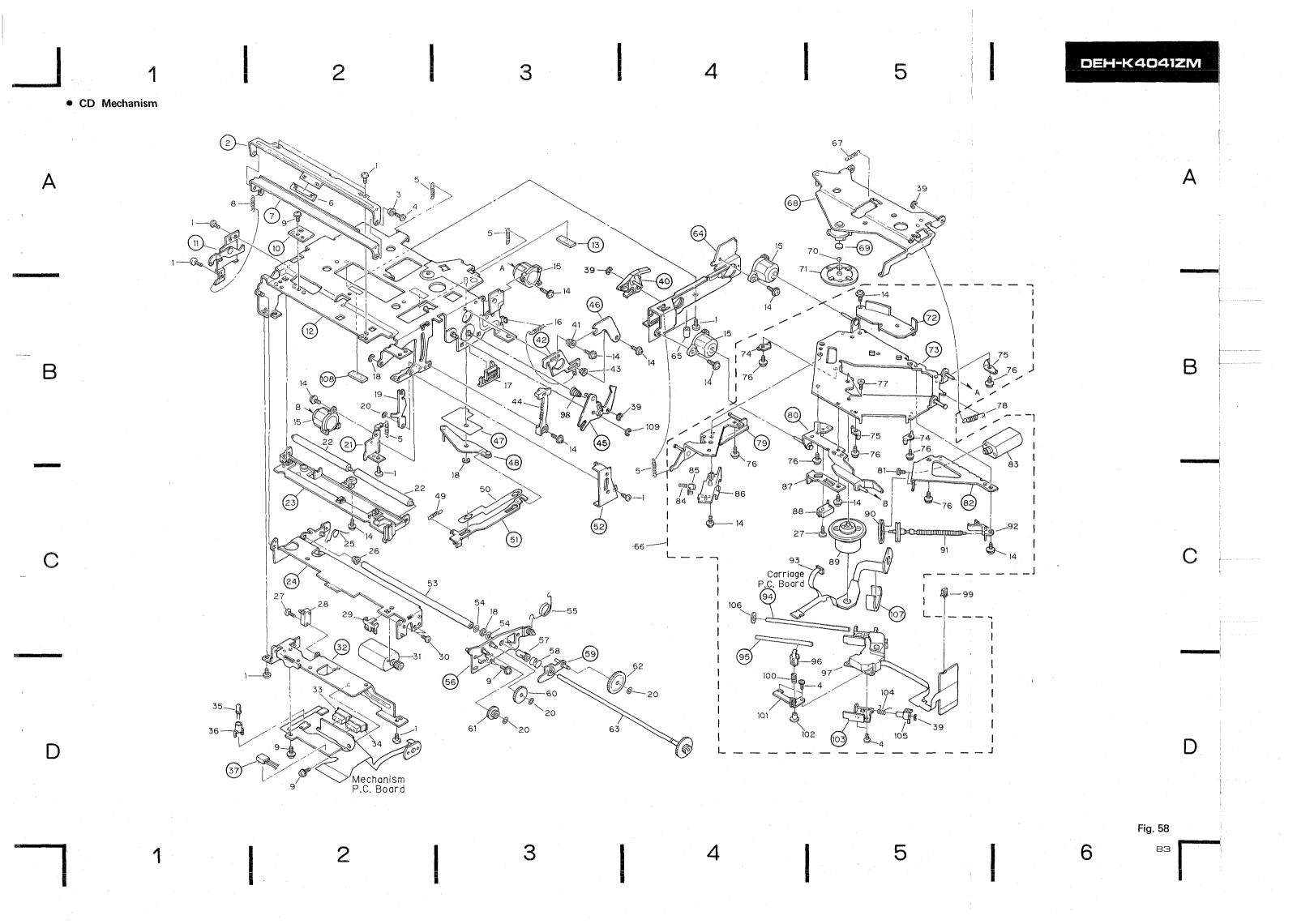
- For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.
   ★★: GENERALLY MOVES FASTER THAN ★.
- \*\*: GENERALLY MOVES FASTER THAN \*.

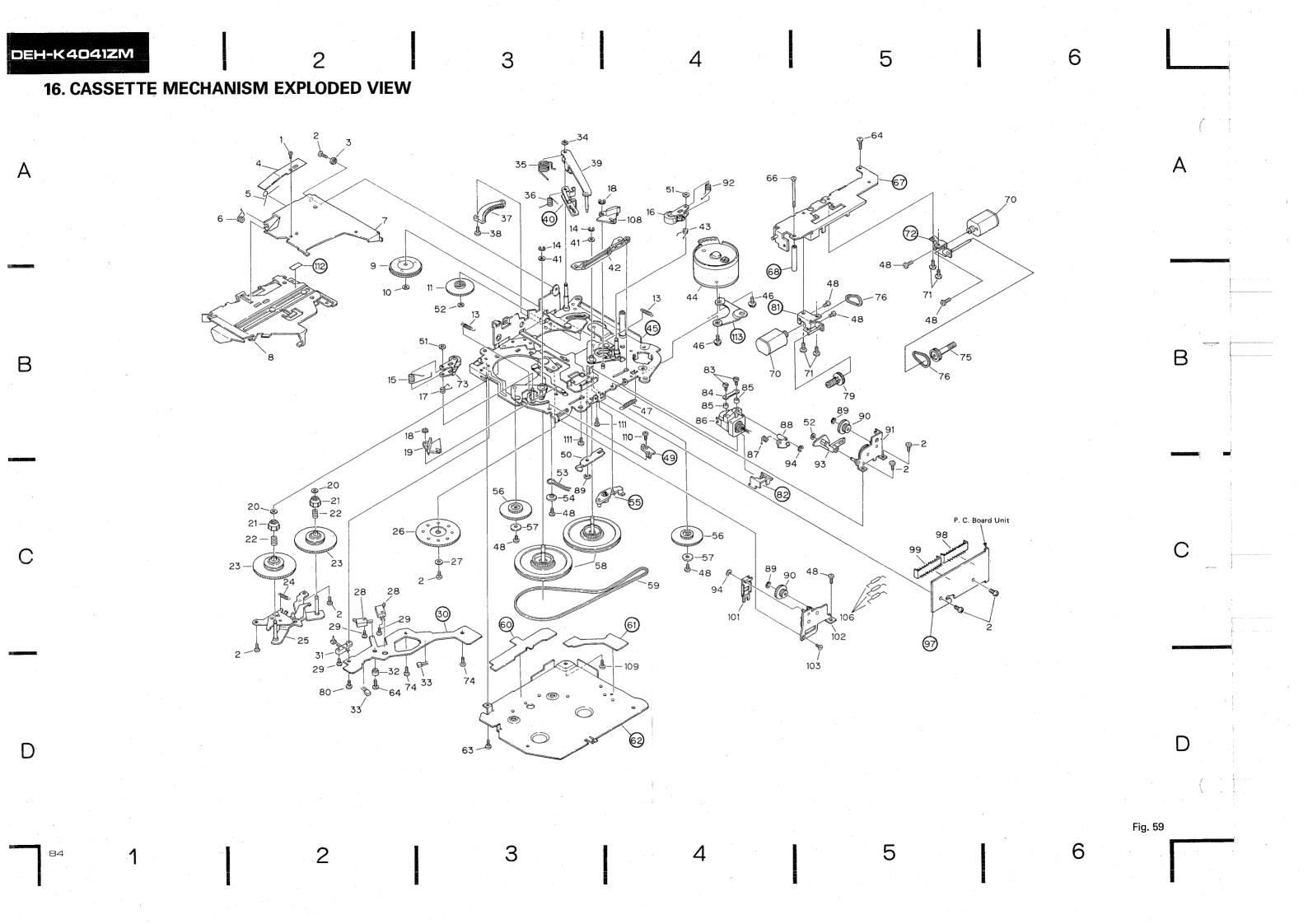
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "@" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

### ● Parts List

<u>Mark</u>	No. 1 2 3 4 5	Part No. BMZ26P030FMC CLA1311 CBA1062 CBH1182	Description Screw Bracket Collar Screw Spring	Mark ★★	No. 31 32 33 34 35	Part No. CXA2129 CKS-719 CKS-721 SLR-981A	Description Motor Unit(Loading) Bracket Connector Connector LED
	6 7 8 9 10	CNV1641 CBH1137 CBA1076	Holder Arm Spring Screw P.C.Board		36 37 38 39 40	CNV1639 CNP1711 YE15FUC	Holder Connector P.C.Board Washer Arm Unit
	11 12 13 14 15	CBA1075 CXA2148	Bracket Unit Chassis Unit Cushion Screw Damper Unit		41 42 43 44 45	CLA1472 CLA1309 CNV1630	Collar Lever Collar Gear Arm Unit
	16 17 18 19 20	CBH1139 CNV1633 YE20FUC CNV1631 CBF-166	Spring Holder Washer Cam Washer		46 47 48 49 50	CBH1134 CNM2152	Holder Spacer Arm Unit Spring Spacer
	21 22 23 24 25	CNV1636 CBH1135	Bracket Roller Guide Arm Unit Spring		51 52 53 54 55	CNV1634 CBF1002 CBH1133	Lever Unit Bracket Roller Washer Spring
**	26 27 28 29 30	CNV1884 CBA1070 CSN1009 CNV1644 HBA-175	Bearing Screw Switch(Disc Set) Holder Screw		56 57 58 59 60	CNV1632 CBH1181 CNV1628	Bracket Unit Bearing Spring Arm Unit Gear

Mark	No. 61 62 63 64 65	Part No. CNV1627 CNV1629 CXA2456 CNY-265	Description Gear Gear Gear Unit Bracket Unit Cushion	<u>Mark</u> ★★  ★★	No. 86 87 88 89 90	Part No. CNV1780 CNV1674 CSN-094 CXM1033 CNT1020	Description Holder Holder Switch(Home) Motor Unit(Spindle) Belt
	66 67 68 69 70	CXA1910 CBH1136 CNR1079	Carriage Unit Spring Arm Unit Spacer Ball		91 92 93 94 95	CXA2375 CNV1781 CNP1709	Screw Unit Holder P.C.Board Shaft Shaft
	71 72 73 74 75	CNV1643 CNC1738 CNC1739	Clamper Guide Chassis Unit Holder Holder		96 97 98 99 100	CNV1512 CGY1007 CBH1199 CBL1010 CBH1105	Holder PU Unit Spring Short Pin Spring
	76 77 78 79 80	PMS20P030FMC HBA-163 CBH1138	Screw Screw Spring Bracket Unit Holder Unit		101 102 103 104 105	CNC1736 CLA1319 CBH1106 CNV1513	Holder Screw Holder Unit Spring Rack
**	81 82 83 84 85	CBA-098 CXA2133 CBH1104 CNV1844	Screw Bracket Motor Unit(Carriage) Spring Spacer		106 107 108 109	CNV1863 YE12FUC	Cushion Cover Cushion Washer





### • Parts List

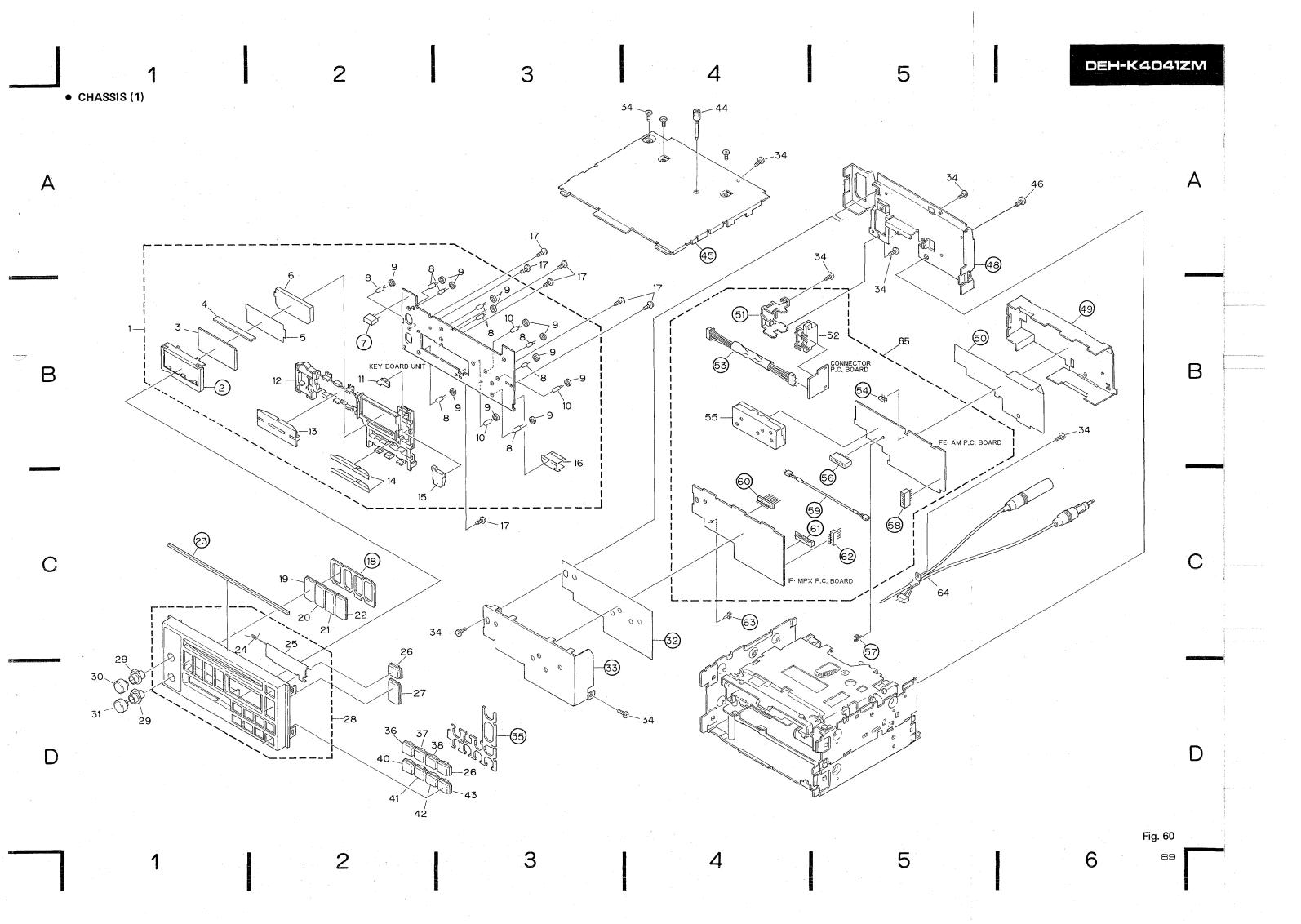
Mai	<u>rk</u> _	No. 1 2 3 4 5	Part No. HBA-147 BMZ20P040FMC CLB-663 CBE-119 CBH-867	Description Screw M1.4×1.4 Screw Bush Spring Spring	Mark	No. 46 47 48 49 50	Part No. PMS26P035FMC CBH-830 HBA-175 CBL1050	Description Screw Spring Screw M2×2.5 Spacer Spring
		6 7 8 9	CBH-837 CNC2373 CXA2819 CXA2088 CBF1026	Spring Arm Holder Unit Gear Unit Washer		51 52 53 54 55	CBF1025 CBF-126 CBH-893 CLA1110	Washer Washer Spring Collar Clamper
		11 12 13 14 15	CNY-271 CBH-835 CBG1003 CBH-832	Gear Spring E Type Washer Spring	**	56 57 58 59 60	CNV1616 CLA1238 CNV1572 CNT-111	Gear Collar Flywheel Belt Insulator
*	*	16 17 18 19 20	CXA2608 CBH1197 YE25FUC CNV1254 CBF1022	Pinch Roller Unit Spring E Type Washer Arm Washer		61 62 63 64 65	BMZ20P030FMC CBA-172	Insulator Cover Screw Screw M1.7×5.5
*	*	21 22 23 24 25	CNW-932 CBH-827 CXA2089 CBH-868 CXA1481	Collar Spring Reel Unit Spring Bracket Unit	**	66 67 68 69 70	CXA2429	Screw M2×25 Guide Spacer Motor Unit (FF/REW, Head Position)
*	*	26 27 28 29 30	CNW-944 CLA1109 CSN1003 CBA1025	F/R Gear Collar Switch(70 \( \mu \) S,CST IN Screw M1.7 \times 5.5 P.C.Board	) .	71 72 73 74 75	HBA-174 CXA2609 CBA1037 CNV1255	Screw Bracket Unit Pinch Roller Unit Screw M2×2.5 Pulley
*	*	31 32 33	CSN-089 CLA1170 SDME106B	Switch(CST SET) Collar Magnetic Resistive Device	**	76 77 78	CNT1010	Belt
		34 35	CBF-046 CBH-887	Washer Spring		79 80	CNV1256 CBA1054	Pulley Screw M2×5
		36 37 38 39 40	CBH-886 CNV1075 CBA1054 CXD-389	Spring Gear Screw M2×5 Arm Unit Arm		81 82 83 84 85	CBA1055 CBE-114 CNY-134	Bracket Unit Cover Screw M1.4×8 Spring Azimuth Rubber
*	<b>r★</b>	41 42 43 44 45	HBF-179 CNV1257 CBH1196 CXM1007	Washer Lever Spring Motor(Capstan) Chassis Unit	**	86 87 88 89 90	CXA2462 CBH-829 CNW-939 YE12FUC CNV1262	Head Unit Spring Gear E Type Washer Gear

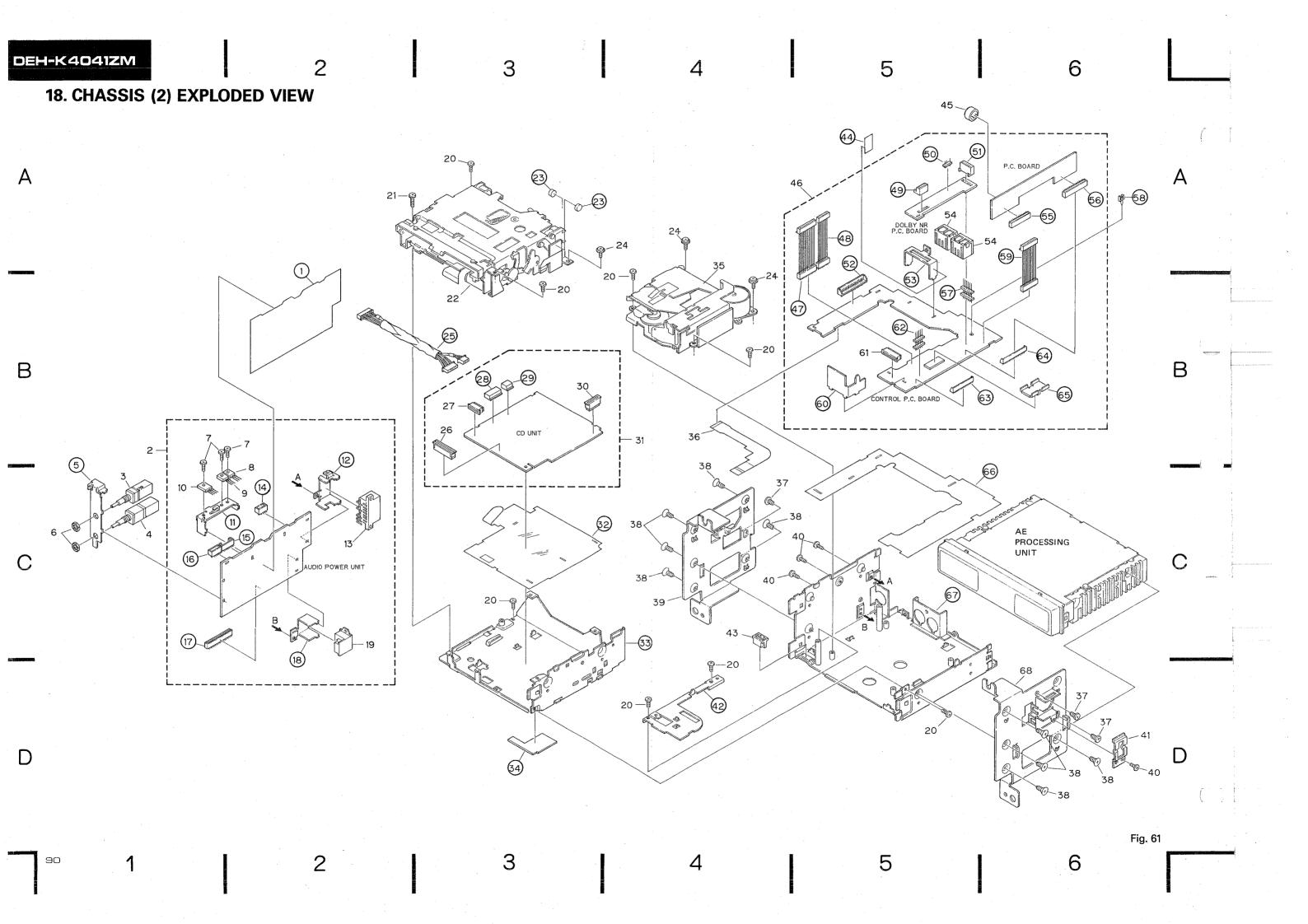
Mark	No.	Part No.	Description	Mark	No.	Part No.	Description
	91 92	CXA1688 CBH-831	Holder Assy Spring	*	106 107	181555	Diode
	93	CNV1495	Arm		108	CNV1253	Arm
	94	YE15FUC	E Type Washer		109	CBA1060	Screw M2×7
	95	* * * * *			110	CBA1015	Screw M2×4
	96 97	••••	P.C.Board		111 112	CBA1041	Screw M2×2.5 Spacer
	98	CKS1055	Connector(8P)	Λ.	113		Bracket
	99 100	CKS1059	Connector (12P)				
	101 102	CNH-004 CXA1689	Arm Holder Assv				
	103	HBA-209	Screw M2×2				
	104						
	105	• • • • •					

# 17. CHASSIS (1) EXPLODED VIEW

### • Parts List

		· •					
Mark ①	No. 1 2 3 4 5	Part No. CWM1770 CWW1173 CNV1777 CNM2095	Description Key Board Unit Holder LCD Connector Plate	Mark ★ ★	No. 36 37 38 39 40	Part No. CAC1911 CAC1913 CAC1912 CAC1915	Description Button(DN) Button(APC) Button(PRO) Button(FM)
** **	6 7 8 9 10	CNV1774 CEL-153 CNM1993 CEL1071	Lens Connector Lamp Spacer Lamp	*	41 42 43 44 45	CAC1916 CAC1917 CAC1918 CBA1096	Button(AM) Button(CD) Button(TAPE) Screw Case Unit
·	11 12 13 14 15	CNV1773 CNV1776 CNV1770 CNV1771 CNV1772	Lens Housing Lens Lens Lens		46 47 48 49 50	BMZ50P060FMC	Screw Case Case Insulator
*	16 17 18 19 20	CNP1806 BPZ20P080FMC CAC1906 CAC1907	P.C.Board Screw Cushion Button (AUTO, SCAN) Button (1,4)		51 52 53 54 55	CKM1035	Bracket Connector Connector Plug FM Front End
*	21 22 23 24 25	CAC1908 CAC1909 CBH1044 CAT1163	Button (2,5) Button (3,6) Cushion Spring Door		56 57 58 59 60		Plug Clamper Plug Connector Plug
***	26 27 28 29 30	CAC1914 CAC1910 CXA2590 CAA1141 CAA1168	Button(EJECT) Button(UP, DOWN) Grille Unit Knob Knob	•	61 62 63 64 65	CDH1097 CWE1119	Plug Plug Clamper Antenna Cable Tuner Unit
*	31 32 33 34 35	CAA1139 BMZ30P050FMC	Knob Insulator Case Screw Cushion				





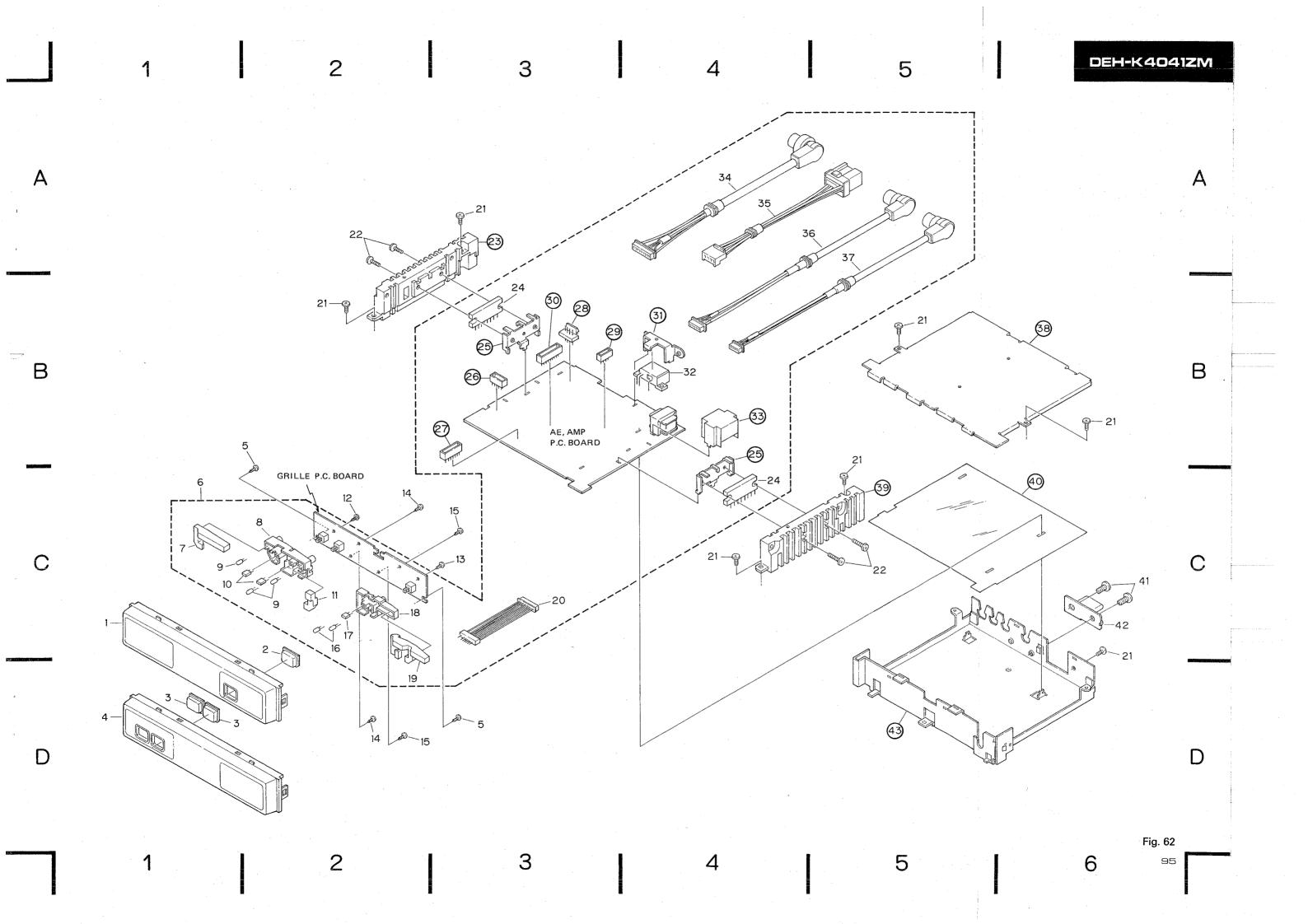
### Parts List

Mark	No. 1	Part No.	Description Insulator		Mark	No. 36	Part No. CNP1968	Description P.C. Board
<ul><li>(a)</li><li>(b)</li><li>(c)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li><li>(d)</li>&lt;</ul>	2 3 4 5	CWM1775 CCS1122 CCS1104	Audio Power l Volume Volume Bracket	lni t		37 38 39 40	BMZ50P080FMC CMZ50P080FMC CNC2771 BMZ30P050FMC	Screw Screw Bracket Screw
** **	6 7 8 9	NK70FMC BMZ30P060FMC 2SC3421 2SA1358 AN7805R	Nut Screw Transistor Transistor IC			41 42 43 44 45	CNC2531 CNV1823 CPV1005	Holder Bracket Guide Insulator Buzzer
	11 12 13 14 15	CKM1036	Bracket Bracket Plug Plug Plug		•	46 47 48 49 50	CWM1769	Control Unit Connector Connector Connector Plug
	16 17 18 19 20	CKS1513 BMZ26P050FMC	Plug Connector Bracket Plug Screw			51 52 53 54 55	CKS1507	Connector Plug Bracket Connector Connector
•	21 22 23 24 25	PMA26P100FMC CXK2220 PMF26P050FMC	Screw CD Mechanism Insulator Screw Connector	Unit	^	56 57 58 59 60		Connector Plug Clamper Connector Bracket
	26 27 28 29 30	CKS1415 CKS1169 CKS1328	Connector Connector Plug Plug Connector		·	61 62 63 64 65	CKS1175	Connector Plug Plug Plug Plug Heat Sink
<ul><li></li></ul>	31 32 33 34 35	CXK1695	CD Unit Insulator Chassis Spacer Cassette Mech	anism :	Assv	66 67 68	CNC2770	Insulator Chassis Bracket
•								٠ ،

## 19. AE PROCESSING UNIT EXPLODED VIEW

### • Parts List

Mark	No. 1 2 3 4 5	Part No. CXA2614 CAC1929 CAC1852 CXA2555 BPZ20P060FMC	Description Grille Assy Button Button Grille Assy Screw	(4141ZM) (4141ZM) (4041ZM)	<u>Mark</u>	No. 25 26 27 28 29	Part No.	Description Holder Plug Plug Plug Plug Plug
<ul><li>**</li></ul>	6 7 8 9	CWK1024 CWK1026 CNV1934 CNV1935 CEL-153	AE,AMP Unit AE,AMP Unit Lens Holder Lamp			30 31 32 33 34	CKM1035 CDE2139	Plug Holder Plug Case Connector
*	10 11 12 13 14	AA4524K CNV1942 BPZ20P060FZK BPZ20P060FZK BPZ20P060FMC	LED Lens Screw Screw Screw	(4041ZM) (4041ZM) (4041ZM) (4141ZM) (4041ZM)		35 36 37 38 39	CDE2134 CDE2137 CDE2138	Connector Cord Cord Case Heat Sink
**	15 16 17 18 19	BPZ20P060FMC CEL-153 AA4524K CNV1983 CNV1984	Screw Lamp LED Holder Lens	(4141ZM) (4141ZM) (4141ZM) (4141ZM) (4141ZM)		40 41 42 43	BMZ50P080FMC CNC2358	Insulator Screw Bush Chassis
**	20 21 22 23 24	CDE2135 BMZ30P060FMC BMZ30P140FMC TA8215H	Connector Screw Screw Heat Sink IC					



## **20. ELECTRICAL PARTS LIST**

#### NOTE:

- For your parts Stock Control, the fast moving items are indicated with the marks \*\* and \*.
  - \*\* : GENERALLY MOVES FASTER THAN \*.
- This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S \( \Boxed{\omega} \Boxed{\omega} J, RS1/10S \( \Boxed{\omega} \Boxed{\omega} J \)
Chip Capacitor (except for CQS.....)
CKS....., CCS....., CSZS.....

nit	Nan	le e	: F	WB1005 M Front	End			mark			Circu	it Sy	mbol 8	. NO.	====	Part Name	Part No.
	ELLAN								C 5		15	20					CKSYB222K
ark	====				Symbol & No	. ==== Part N	ame Part No.		C 7 C 8 C 9	10							CKSYB103K CCSCH100D CCSSH560J
**	10	1					CWW1015										000011000
**		2					PA4009	-	C 12	18							CCSTH150J
**		1					2SK241		C 13								CCSTH330J
**	-	2					2SC2753		C 14								CCSTH100D
**	Q	3					2SK241		C 16	19	21						CK SYB223K
							KV1310A-3		C 17								CC2N1080D
*		1 1			Coil		CTC1001		_								
	L L	2			Coil		CTC1001		C 22								CEA2R2M35
	L	3			Coil		CTC1002		C 23								CEA3R3M25
	L.	4			Induct	or	CTF-185		C 24								CCSSH0300
		•			,		777 -77	Unit	Numbe	r :							
	T	1			Coil		CTC1005		Name		Tuner	Unit					
	T	2			Coil		CTC1004										
	CF	1	2		Cerami	c Filter	CTF-182						_				
	0 m o n							Tun	er Uni	t			1				
ESI:	STOR	S									····		-				
								l Con	sists	of			1				
1.				0::4	Cambo t & No	Dont M	one Dont No						1				
ark	222					o. ==== Part N		•	Connec			oard	1				
ark					Symbol & No				Connec FE·AM	P. C. 1	Board		1				
ark	R	1					RS1/8S223J		Connec	P. C. 1	Board		1				
ark	R R	1 2	14				RS1/8S223J RS1/8S473J		Connec FE·AM	P. C. 1	Board						
ark	R R R	1	14				RS1/8S223J RS1/8S473J RD1/4PS222JL		Connec FE·AM	P. C. 1	Board						
ark	R R	1 2 3 4	14				RS1/8S223J RS1/8S473J	9	Connec FE·AM	P. C. 1	Board					,	
ark	R R R R	1 2 3 4 5	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J	MISCE	Connec FE·AM: IF·MPX	P. C. I P. C.	Board Board	1				,	
ark	R R R R	1 2 3 4 5	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J	MISCE Mark	Connec FE·AM IF·MPX LLANEOU	P. C. I P. C.	Board Board Circu	d 					Part No.
ark	R R R R R	1 2 3 4 5	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S683J RS1/8S101J	MISCE Mark	Connec FE·AM: IF·MPX LLANEOU	P. C. I P. C.	Board Board Circu	d 			==== ]		
ark	R R R R R	1 2 3 4 5	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S683J RS1/8S101J RS1/8S680J	MISCE Mark	Connec FE·AM I IF·MPX LLANEOU	P. C. I P. C.	Board Board Circu	d 					LA1137N
ark	R R R R R	1 2 3 4 5 6 7 8 11	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S683J RS1/8S101J RS1/8S680J RS1/8S391J	MISCE Mark	Connec FE·AM I IF·MPX LLANEOU	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011
ark	R R R R R	1 2 3 4 5	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S683J RS1/8S101J RS1/8S680J	MISCE Mark ** **	Connec FE·AM IF·MPX LLANEOU IC 101 IC 131 IC 132	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A
ark	R R R R R	1 2 3 4 5 5 6 7 8 11 12	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S683J RS1/8S680J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE Mark  **  **	Connec FE·AM IF·MPX LLANEOU IC 101 IC 131 IC 132 IC 133	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505
ark	R R R R R	1 2 3 4 5 5 6 7 8 11 12	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S101J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE Mark  **  **	Connec FE·AM IF·MPX LLANEOU IC 101 IC 131 IC 132	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A
ark	R R R R R	1 2 3 4 5 5 6 7 8 11 12	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S683J RS1/8S680J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE Mark	Connec FE·AM IF·MPX LLANEOU IC 101 IC 131 IC 132 IC 133 IC 134	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110
	R R R R R R	1 2 3 4 5 5 6 7 8 11 12 13	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S101J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE Mark  **  **  **  **	Connec FE-AM : IF-MPX LLANEOU IC 101 IC 131 IC 132 IC 133 IC 134	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110
	R R R R R	1 2 3 4 5 5 6 7 8 11 12 13	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S101J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE  Mark  **  **  **  **  **	Connec FE-AM IF-MPX LLANEOU IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S
APA	R R R R R R R R	1 2 3 4 5 6 7 8 11 12 13	14				RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S680J RS1/8S391J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark  **  **  **  **  **	Connec FE-AM : IF-MPX LLANEOU IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218
 APA	R R R R R R R R	1 2 3 4 5 5 6 7 8 8 11 12 13 RS	14	Circuit	Symbol & No	o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S101J RS1/8S680J RS1/8S391J RS1/8S331J	MISCE Mark  **  **  **  **  **	Connec FE-AM : IF-MPX  LLANEOU  IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137 IC 138	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218 KHA805
APA	R R R R R R R R	1 2 3 4 5 5 6 7 8 11 12 13 RS	14	Circuit		o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S680J RS1/8S391J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark  **  **  **  **  **	Connec FE-AM : IF-MPX LLANEOU IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137	P. C. I P. C.	Board Board Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218
 APA	R R R R R R R R	1 2 3 4 5 5 6 7 8 11 12 13 RS	14	Circuit	Symbol & No	o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S680J RS1/8S391J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark  **  **  **  **  **  **	Connec FE-AM : IF-MPX  LLANEOU  IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137 IC 138	P. C. 1 P. C. 1 JS	Circu	d 					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218 KHA805
CAPA	R R R R R R R R R	1 2 3 4 5 6 7 8 11 12 13 RS	14	Circuit	Symbol & No	o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S680J RS1/8S680J RS1/8S391J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark  **  **  **  **  **  **  **  **  **	Connec FE-AM: IF-MPX  LLANEOU  IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137 IC 138 Q 101	P. C. 1 P. C. 1 JS	Circu	d Synit Sy					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218 KHA805 2SK435
CAPA	R R R R R R R R	1 2 3 4 5 5 6 7 8 11 12 13 RS	14	Circuit	Symbol & No	o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S683J RS1/8S101J RS1/8S680J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark	Connec FE-AM: IF-MPX  LLANEOU  IC 101 IC 131 IC 132 IC 133 IC 134 IC 135 IC 136 IC 137	P. C. 1 P. C. 1 IJS 135 104	Circu	d Synit Sy					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218 KHA805 2SK435
CAPA	R R R R R R R R R	1 2 3 4 5 6 7 8 11 12 13 RS	14	Circuit	Symbol & No	o. ==== Part N	RS1/8S223J RS1/8S473J RD1/4PS222JL RD1/4PS221JL RS1/8S560J RS1/8S560J RS1/8S680J RS1/8S680J RS1/8S391J RS1/8S331J RD1/4PS680JL (RD1/6PS680J)	MISCE Mark	Connec FE-AM: IF-MPX  LLANEOU  LLANEOU  LLANEOU  LLANEOU  LLANEOU  LC 131  LC 132  LC 133  LC 134  LC 135  LC 136  LC 137  LC 138  Q 101  Q 102  Q 102  Q 103	P. C. 1 P. C. 2 P. C.	Circu	d Synit Sy					LA1137N PA5011 KHA141A KHA505 LA2110 LA3430P TA75558S LC7218 KHA805 2SK435 2SC2458 DTC124ES

ark	k ====== Circuit Symbol & No. ==== Part Name	Part No.	Mark ====== Circuit Symbol & No. ==== Part Name Part No	o. 
**	Q 139	2SK330	R 148 151 RD1/4PS	S223J
*	Q 141 142	2SA1150	R 152 182 RD1/4PS	S222J
*	D 101 102 103 104 105 132 133 135 136 137	155133	R 153 RS1/103	
ķ	D 106	KV1280F1-2	R 155 RS1/109	
*	D 107 138 139 140	155133	R 156 RS1/103	5393J
ŧ	D 131	1SV99	R 157 159 RS1/103	S473J
*	D 134	RD3R0ESB2	R 163 164 RS1/105	
ŧ	D 141	RD5R1JSB2	R 165 166 RD1/4PS	S333J
	L 101 Ferri-Inductor	CTF-157	R 169 RS1/103	S334J
	L 131 132 133 134 Ferri-Inductor	LAU150K	R 179 RS1/100	S152J
	T 101 Coil	CTB-149	R 184 RD1/4PS	S103J
	T 102 Coil	CTB-171	R 190 RD1/4PS	S104J
	T 103 Coil	CTB1025	R 191 192 RD1/4PS	S224J
	T 104 Coil	CTB1026		
	T 105 Coil	CTE1017	CAPACITORS	
	T 106 Coil	CTE1018	Mark ====== Circuit Symbol & No. ==== Part Name Part No	0.
	T 107 Coil	CTB1024		
	T 131 Transformer	CTC-195	C 101 104 108 109 110 116 117 123 139 140 CKSQYB	223K2
	T 132 Coil	CTC1029	C 102 111 113 CCSQCH	100D5
	CG 131 132 Surge Protector	DSP-301NS00B	C 103 CKSYB2	23K2
			C 105 126 CCSQCH	
	CF 101 Filter	CTF-100	C 106 147 CEA101)	MIOL:
	CF 102 Ceramic Resonator	CTF1039		
	CF 131 Ceramic Filter	CTF-182	C 107 115 142 143 163 164 168 182 CEA010)	
	CR 132	CWW1145	C 112 CCSQCHO	
	CR 133	CWW-107	C 114 118 CKSYB3	
	V 101	0001000	C 119 180 CKSYF10	
	X 131 Crystal Resonator	CSS1030	C 120 CEA4R7)	435L3
	X 132 Ceramic Resonator	CSS1022 VRTB4VS102	0.101.105	
	VR 101- Semi-fixed 1kΩ (B) VR 131 132 134 Semi-fixed 22kΩ (B)	VRTB4VS223	C 121 165 CEASR3)	
	VR 131 132 134 Semi-fixed 22kΩ(B) VR 133 Semi-fixed 10kΩ(B)	VRTB4VS103	C 122 CEAR47)	
	AU 122 Semi-liked Tok75 (P)	7R1D473103	C 124 CQPA75	
	FM Front End	CWB1005	C 125 CCSQCH: C 127 CQPA101	
31	ISTORS		C 128 133 137 144 150 151 154 170 172 CKSQYB:	10215
•	101010		C 129 153 161 CEA470	
k	k ======= Circuit Symbol & No. ==== Part Name	Part No.	C 130 CCSQSL	270J5
-			C 131 156 177 CKSQYB	222K5
	R 101	RD1/4PS152JL	C 132 136 171 179 CEA100	425LS
	R 102 107 113 114 120 149 150	RS1/10S103J		
	R 103 133	RS1/10S471J	C 134 CEA2201	M16LS
	R 104 154	RS1/10S682J	C 135 CCSQSL	
	R 105 135	RS1/10S330J	C 138 CKSQYB.	
	P. 100	DC: /1000001	C 141 CCSQCH.	
	R 106	RS1/10S220J	C 145 CEA4R7)	#16N1
	R 108	RS1/10S394J		n W
	R 109 176 177 185 186 187 188 189	RS1/10S222J RS1/10S472J	C 146 CASA331	
	R 110 146 160 161 162 178 183 R 111	RS1/10S153J	C 148 CEA2R2)	
	A III	ROI/ 1001007	C 149 CKSYB4' C 152 CKSYB4	
	R 112 174 175	RS1/10S223J	C 152 CKSQYB. C 155 159 160 CKSQYB	
	R 115 121	RS1/10S513J	C 199 192 100 CVSAIP	ASDO
-	R 116 167 168	RS1/10S101J	C 157 158 CKSQYB.	183K
	R 117	RD1/4PS562JL	C 162 CKSQYB.	
	R 118 119 145 170 171 172 173	RS1/10S104J	C 166 178 181 CKSQYB	
			C 167 CSZAR2:	
	R 131	RS1/10S681J	C 169 4.7 $\mu$ F/16V CCH100	
	R ·132	RS1/8S4R7J		
	R 134	RS1/8S223J	C 173 174 CCSQCH	101J
	R 139 158 180 181	RS1/10S102J	C 175 176 CCSQCH	270 J
		RD1/4PS331JL		
	R 140			
	R 140	RD1/4PS183JL		
		RD1/4PS183JL RD1/4PS682JL		
	R 141	RD1/4PS682JL RD1/4PS392JL		
	R 141 R 142	RD1/4PS682JL		

97.

	Number: Name: AE, AMP Unit AE, AMP Unit		Mark ======= Circuit Symbol & No. ==== Part Name	Part No.
MISCE	Consists of AE, AMP P.C		R 671 672 (K4041ZM)	RD1/4PS104JI
	Grille P.C		R 671 672 (K4141ZM)	RD1/4PS103JI RD1/4PS221JI
Mark	====== Circuit Symbol & No. ==== Part Name	Part No.	R 677 678 R 683 684	RD1/4PS333JI
			R 697 698	RD1/4PS331JI
	IC 551 552	TA8215H	1 00, 000	,
	1C 553	M51953BL	R 901 902 903 (K4041ZM)	RD1/4PS4R7JI
	IC 601 602 IC 603	TA75558S CWW1059	R 904 905 906 907 (K4041ZM)	RD1/4PS271JI
	IC 604	MN 3003	R 908 909 (K4141ZM)	RD1/4PS120JI
4.7	10 004	INTO O O O	R 910 911 (K4141ZM)	RD1/4PS391JI
**	Q 551 552 553 554	2SD1468S	R 912 (K4141ZM)	RD1/4PS103JI
	Q 601 602	2SC2458L		
**	Q 603 604 (K4041ZM)	DTC124ES	CAPACITORS	
**	Q 605 606	DTC124ES	•	
**	Q 607 608	2SA1048	Mark ====== Circuit Symbol & No. ==== Part Name	Part No.
	Q 609	2SA1199S	C 551 552	CEA010M50L2
	Q 610	2SC2458	C 553 554 567 568 637 638	CQMA222J50
	Q 611 612 D 551	2SD667 SM-3-02LFEA	C 555 556 C 557 558 559 560 571 572 573 574	CEA100M16L2 CQMA104J50
	D 601	MTZ7R5B	C 561 564 620	CQMA104350
Ŧ	D 001	MISIN	C 301 304 020	CAMMIOSING
*	D 602	MTZ7R5C	C 562 576	CEA221M16L2
*	D 901 902 LED (K4041ZM)	AA4524K	C 563 577 $2200 \mu \text{ F/16V}$	CCH-123
*	D 903 LED (K4141ZM)	AA4524K	C 565 566 604 605 606	CEAR68M50LS
	L 551 Choke Coil	CTH1017	C 569 570	CEA6R8M35LS
**	S 901 902 Switch (K4041ZM)	CSG-248	C 575 609 610	CEA100M16L2
	S 903 Switch (MUTE) (K4141ZM)	CSG-248	C 578	CEA2R2M50LS
	IL 901 902 903 Lamp (K4041ZM)	CEL-153	C 579	CEA2R2M50LS
	IL 901 902 Lamp (K4141ZM)	CEL-153	C 601 602	CEA010M50L2
• •		VDD 100	C 603	CEAR68M50LS
ESIS	TORS		C 607 608	CQFAH684J50
			C 611 612	CQEA334J63
lark	====== Circuit Symbol & No. ==== Part Name			
			C 613 614	CEA2R2M50L2
	R 551 645 646 (K40412M)	RD1/4PS222JL	C 615 616	CQMA563J50
	R 551 (K4141ZM)	RD1/4PS272JL	C 617 618	CQMA392J50
	R 552 635 636 637 638 690 693 695 R 553 554 565 566 578 615 616	RD1/4PS102JL RD1/4PS332JL	C 619 C 621 622 (K4041ZM)	CEA330M16L2 CQMA473J50
	R 555 556 567 568 579 601 602 609 610	RD1/4PS103JL	C 021 022 (K40412m)	CAWVALOTO
	N 333 336 361 366 315 661 662 663 616	RD1/41 01003D	C 623 624 631 632 633 634	CEA4R7M35L2
	R 557 558 569 570 679 680 694 696	RD1/4PS561JL	C 625	CCCCH330J50
	R 559 560 561 562 571 572 573 574	RD1/4PS010JL	C 627 628 (K4041ZM)	CQMA102J50
	R 563 564 603 604 659 660 667 668	RD1/4PS682JL	C 626 639 640 641 642	CEA221M10L2
	R 575 580 581 582 673 674	RD1/4PS473JL	C 629 630 (K4041ZM)	CQMA104J50
	R 576	RD1/4PS101JL		
			C 635 636	CQMA183J50
	R 577 617 618 663	RD1/4PS152JL	C 643	CEA102M6R3L
	R 601 602 (K4041ZM)	RD1/4PS153JL	C 644 (K4141ZM)	CEA100M16L2
	R 601 602 (K4141ZM)	RD1/4PS103JL	C 901 902 (K4041ZM)	CEAR33M50L2
	R 611 612 649 650 651 652	RD1/4PS562JL	Unit Number:	
	R 613 614 621 622 665 666 689 691 692	RD1/4PS472JL	Unit Number: Unit Name : CD Unit	
	R 619 620	RD1/4PS273JL	VALUE NAME OF WHITE	•
	R 623 624	RD1/4PS273JL RD1/4PS271JL	MISCELLANEOUS	
	R 627 628 631 632	RD1/4PS821JL		
	R 629 630	RD1/4PS122JL	Mark ===== Circuit Symbol & No. ==== Part Name	Part No.
	R 633 634	RD1/4PS683JL	Tall Hamo	
		•	** IC 351	CXA1081M
	R 639 640	RD1/4PS391JL	** IC 601	CXA1082AQ
	R 641 642	RD1/4PS681JL	** IC 651 652	PA3023
	R 647 648 (K4041ZM)	RD1/4PS334JL	** IC 655. 657	M5218FP
	R 653 654 655 656 675 676	RD1/4PS104JL	** IC 656	M5233FP
	R 657	RD1/4PS100JL	++ IC 701	07011070
	D 659	DD1/ADCOODII	** IC 701	CXVERTON 151
	R 658 R 661-662	RD1/4PS823JL RD1/4PS222JL	** 1C 702	CXK5816M-151
	R 664	RD1/4PS153JL	** 1C 703 ** 1C 704	μ PD6355G KHA221A
	R 669 670 (K4041ZM)	RD1/4PS822JL	** 1C 704 ** 1C 751	PD4136B

## 10 154 ## 0 251   SEPTIFE	ark ====== Circuit Symbol & No. ==== Pa	rt Name Part No.	Mark ======= Circuit Symbol & No. ==== Part Name	Tart NO.
# Q 651 102 CS 705	** 1C 754	M54546AL		RS1/10S272J
** Q 61 101 700	ŧ <b>≠</b> Q' 351	2SB822F	R 634	RS1/10S474J
** O 61701 760 Chip Transistor UN2211 R 650 644 68 17 S2/1/55021  ** O 705 704 Chip Transistor UN2211 R 656 175 Chip Transistor UN2211 R 677 Chip Transistor UN221	* 0 601 652 653 705 Chip Transistor	UN 2 2 1 1	R 665 790	RS1/10S821J
Q   702 706 759   Chip Transistor   C25114   R   565 579   E51/185721				
*** © 758	· · · · · · · · · · · · · · · · · · ·	the state of the s		RS1/10S392J
*** © 758	Ohio Tonnicko	0001040	D 670	DC1/t0C0641
# D 651				
D 652				
D 661 662	* D 651	ERA15-02		RS1/10S332J
** D 661 862	* D 652	ERA82-004Y	R 676 799	RS1/10S201J
D 701	* D 653 654 655 656 657 658 659	ERA82-004VH	R 677	RS1/10S201J
*** D 701	* D 661 662	HZS2ALL	R 678	RS1/10S223J
D 102	* D 701 Chip Diode	MA 151WA-MN	R 680	
### P 755   Chip Diode   MA902	- · · · · · · · · · · · · · · · · · · ·			
L 651 Choke Coll CTB1035 R 685 692 RS1/105269.  TH 551 Therefister CCV-021 R 690 RS1/105272.  TH 551 Therefister CCV-021 R 691 703 755 RS1/105272.  X 701 Crystal Resonator CS51027 R 684 785 RS1/105303.  X 701 Crystal Resonator CS5-042 R 701 RS1/105303.  ** VR 551 Semi-fixed CCP1005 R 712 713 RS1/105392.  ** VR 552 Semi-fixed CCP1005 R 712 713 RS1/105392.  ** VR 651 Semi-fixed XLR(R) RCP-207 R 147 RS1/105303.  ** VR 651 Semi-fixed ATAR (B) RCP-207 R 747 RS1/105303.  R 751 R 754 756 757 RS1/105303.  R 751 R 755 757 RS1/105303.  R 755 757 RS1/105303.  R 756 757 RS1/105303.  R 757 757 RS1/105303.  R 758 858 757 7566 RS1/105303.  R 758 858 757 7566 RS1/105303.  R 758 858 757 7566 RS1/105303.  R 758 858 857 756 RS1/105303.  R 758 858 857 756 868 857 715 718 719 751.  R 751/105303.  R 751/105303.  R 751 RS1/105303.  R 752 RS1/105303.  R 757 RS1/105303.  R 758 RS1/10	•			
Til 351				
TH 751 Thermister CCF-021 R 691 703 755 RSJ/10S1027 X 751 Crystal Resonator CSS-042 R 701 RSJ/10S1027 X 751 Crystal Resonator CSS-042 R 701 RSJ/10S1027 X 751 Ceramic CSS-042 R 701 RSJ/10S1027 R 752 TSS-042 R 7	L 651 Choke Coll	CINIOSS	N 000 032	R31/1031033
X 701				RS1/10S272J
X 751   Ceramic Pesonator CSS-042	TH 751 Thermister	CCX-021		KS1/10S103J
** VR 351	X 701 Crystal Resonato	r CSS1027	R 694 786	RS1/10S822J
** VR 351	X 751 Ceramic Resonato	r CSS-042	R 701	RS1/10S100J
** VR 664	** VR 351 Semi-fixed	CCP1005	R 712 713	RS1/10S392J
** We 664			P. 804	DO4 /4-7:77-
## WR 651				
ESISTORS  R 753 74 756 779 R 756 757 RS1/105581J  ark	** VR 604 Semi-fixed 2.2ks	2 (B) HCP-267	R 747	RS1/10SOROJ
ESISTORS  R 766 767  R 766 767  R 776 771 772  R 851/1052221  R 774  R 851/1052331  R 251  R 351  R 351  R 351  R 353 100 700 714 724 725 726 727 728  R 851/105231  R 354 355 378  R 355 357 358 359 659  R 351/1052131  R 352 378  R 353 381 700 700 714 724 725 726 727 728  R 851/1052313  R 356 357 358 359 659  R 351/105241  R 352 378  R 353 381 700 700 714 724 725 726 727 728  R 351/1052313  R 352 763  R 351/105241  R 352 763  R 351/105241  R 352 763  R 351/1051051  R 352 763  R 353 853 76 666  R 851/1052031  R 351/1051051  R 352 763  R 353 853 76 666  R 851/1052031  R 354 355 616 667 1  R 351/1051041  R 352 763  R 353 853 76 666  R 351/1052031  R 354 355 76 666  R 351/1052031  R 354 355 76 666  R 351/1052031  R 352 851/1053031  R 353 851 657 656  R 351/1053031  R 354 355 76 666  R 351/1053031  R 352 851/1053031  R 354 355 76 666  R 351/1053031  R 354 355 76 666  R 351/1053031  R 352 851/1053031  R 354 355 76 666  R 351/1053031  R 351/1051031  R 351/1053031  R 351/1053031  R 351/1053031  R 351/1051031  R 351/1053031  R 35	** VR 651 Semi-fixed 47kΩ	(B) HCP-275	R 752 775	RS1/10S103J
ESISTORS  R 766 767  R 776 771 772  R 771 773 773 773 773 773 773 773 773 773			R 753 754 756 779	RS1/10S681J
R 774 RS1/10S2331 R 351 R 781/2P2201L R 787 RS1/10S0RJ R 353 861 708 709 714 724 725 726 727 728 RS1/10S102J R 354 363 378 RS1/10S203J R 355 361 768 709 714 724 725 726 727 728 RS1/10S103J R 356 357 358 359 669 RS1/10S1631J R 356 357 358 359 669 RS1/10S563J Mark ========== Circuit Symbol & No. ==== Part Name Part No.  R 350 361 RS1/10S563J Mark ========== Circuit Symbol & No. ==== Part Name Part No.  R 350 361 RS1/10S563J C 352 611 625 626 662 664 713 721 724 727 CKSQYB103K5 R 354 365 317 686 RS1/10S563J C 355 613 666 CKSYB333K25 R 365 377 686 RS1/10S104J C 355 667 686 714 CKSQYB103K5 R 379 722 723 RS1/10S104J C 355 667 686 714 CKSYB338K25 R 367 780 RS1/10S103J C 356 614 CEAR47W50LS R 379 722 723 RS1/10S203J C 359 614 CEAR47W50LS R 380 617 628 682 RS1/10S203J C 359 614 CEAR47W50LS R 381 832 RS1/10S203J C 350 361 CKSYB332K5 R 384 630 RS1/10S203J C 370 703 704 CKSQYB102K5 R 384 630 RS1/10S23J C 370 703 704 CKSQYB102K5 R 384 630 RS1/10S23J C 370 703 704 CKSQYB102K5 R 601 602 RS1/10S23J C 370 703 704 CKSQYB102K5 R 606 RS1/10S23J C 370 703 704 CKSQYB102K5 R 607 RS1/10S23J C 370 703 704 CKSQYB102K5 R 608 RS1/10S23J C 370 703 704 CKSQYB10ZK5 R 609 614 619 627 773 RS1/10S24J C 373 627 CKSQYB10ZK5 R 608 RS1/10S23J C 605 620 622 628 629 CKSYR473K5 R 611 RS1/10S323J C 605 620 622 628 629 CKSYR473K5 R 612 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 613 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 614 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 615 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 616 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 617 RS1/10S133J C 609 756 CKSQYB12K5 R 621 RS1/10S332J C 610 619 CKSQYB22K5 R 622 RS1/10S332J C 610 619 CKSQYB22K5 R 623 RS1/10S333J C 610 619 CKSQYB62K5 R 624 RS1/10S333J C 610 619 CKSQYB62K5 R 624 RS1/10S333J C 610 619 CKSQYB62K5 R 624 CKSYB63K5 R 625 CKSYB63K5 R 626 CKSYB63K5 R 626 CKSYB63K5 R 627 CKSQYB61ZK5 R 621 CKSWB63K5 R 622 CKSWB63K5 R 623 CKSWB63K5 R 624 CKSWB63K5 R 625 CKSWB63K5 R 626 CKSWB63K5 R 626 CKSWB63K5 R 627 CKSWB63K5 R 628 CKSWB63K5 R 628 CKSWB63K5 R 626	ESISTORS			
R 774 RS1/10S2331 R 351 R 781/2P2201L R 787 RS1/10S0RJ R 353 861 708 709 714 724 725 726 727 728 RS1/10S102J R 354 363 378 RS1/10S203J R 355 361 768 709 714 724 725 726 727 728 RS1/10S103J R 356 357 358 359 669 RS1/10S1631J R 356 357 358 359 669 RS1/10S563J Mark ========== Circuit Symbol & No. ==== Part Name Part No.  R 350 361 RS1/10S563J Mark ========== Circuit Symbol & No. ==== Part Name Part No.  R 350 361 RS1/10S563J C 352 611 625 626 662 664 713 721 724 727 CKSQYB103K5 R 354 365 317 686 RS1/10S563J C 355 613 666 CKSYB333K25 R 365 377 686 RS1/10S104J C 355 667 686 714 CKSQYB103K5 R 379 722 723 RS1/10S104J C 355 667 686 714 CKSYB338K25 R 367 780 RS1/10S103J C 356 614 CEAR47W50LS R 379 722 723 RS1/10S203J C 359 614 CEAR47W50LS R 380 617 628 682 RS1/10S203J C 359 614 CEAR47W50LS R 381 832 RS1/10S203J C 350 361 CKSYB332K5 R 384 630 RS1/10S203J C 370 703 704 CKSQYB102K5 R 384 630 RS1/10S23J C 370 703 704 CKSQYB102K5 R 384 630 RS1/10S23J C 370 703 704 CKSQYB102K5 R 601 602 RS1/10S23J C 370 703 704 CKSQYB102K5 R 606 RS1/10S23J C 370 703 704 CKSQYB102K5 R 607 RS1/10S23J C 370 703 704 CKSQYB102K5 R 608 RS1/10S23J C 370 703 704 CKSQYB10ZK5 R 609 614 619 627 773 RS1/10S24J C 373 627 CKSQYB10ZK5 R 608 RS1/10S23J C 605 620 622 628 629 CKSYR473K5 R 611 RS1/10S323J C 605 620 622 628 629 CKSYR473K5 R 612 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 613 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 614 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 615 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 616 RS1/10S623J C 605 620 622 628 629 CKSYR473K5 R 617 RS1/10S133J C 609 756 CKSQYB12K5 R 621 RS1/10S332J C 610 619 CKSQYB22K5 R 622 RS1/10S332J C 610 619 CKSQYB22K5 R 623 RS1/10S333J C 610 619 CKSQYB62K5 R 624 RS1/10S333J C 610 619 CKSQYB62K5 R 624 RS1/10S333J C 610 619 CKSQYB62K5 R 624 CKSYB63K5 R 625 CKSYB63K5 R 626 CKSYB63K5 R 626 CKSYB63K5 R 627 CKSQYB61ZK5 R 621 CKSWB63K5 R 622 CKSWB63K5 R 623 CKSWB63K5 R 624 CKSWB63K5 R 625 CKSWB63K5 R 626 CKSWB63K5 R 626 CKSWB63K5 R 627 CKSWB63K5 R 628 CKSWB63K5 R 628 CKSWB63K5 R 626		. V . B . V	D. 110 111 110	DO1/1000001
R 351 RS1/10S0R0J R 353 381 708 709 714 724 725 726 727 728 RS1/10S102J R 354 363 378 R 355 610 625 RS1/10S563J RS1/10S563J RS1/10S2283J RS1/10S2283J RS1/10S563J RS1/10S33J RS1/10S				
R 353 381 708 709 714 724 725 726 727 728 RS1/10S1021 R 354 363 378 RS1/10S2331 CAPACITORS R 354 363 378 RS1/10S103131 R 356 357 358 359 669 RS1/10S103131 R 356 357 358 359 669 RS1/10S103131 R 350 361 RS1/10S124J C 351 CEAIOLMERSL R 362 763 RS1/10S104J C 352 611 625 625 662 664 713 721 724 727 CKSVPB103K5 R 363 377 666 RS1/10S104J C 355 617 656 CKSVPB103K5 R 366 377 666 RS1/10S104J C 355 667 668 714 CKSVPB103K5 R 379 722 723 RS1/10S104J C 355 667 668 714 CKSVPB103K5 R 380 617 628 682 RS1/10S203J C 358 614 CCMARTHMOLS R 383 RS1/10S23J C 360 361 CSZS010M6 R 383 RS1/10S23J C 370 703 704 CCSCCH22015 R 384 630 RS1/10S23J C 370 703 704 CCSCCH22015 R 384 630 RS1/10S23J C 370 703 704 CCSCCH22015 R 384 630 RS1/10S23J C 370 703 704 CCSCCH22015 R 606 RS1/10S23J C 370 667 667 667 CKSCPB102K5 R 601 602 RS1/10S23J C 370 703 704 CCSCCH22015 R 606 RS1/10S23J C 370 703 704 CCSCCH22015 R 607 RS1/10S23J C 370 703 704 CCSCCH22015 R 608 RS1/10S23J C 370 703 704 CCSCCH22015 R 608 RS1/10S23J C 370 703 704 CCSCCCH22015 R 608 RS1/10S23J C 370 703 704 CCSCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC				
R 544 363 378 R 355 610 625 R 35105555 R 35		the state of the s	K 787	K21/1020K01
R 355 610 625 R 356 357 358 359 669 RSI/10S563J RSI/10S563J RATK ====================================		·		
R 356 357 358 359 669  RS1/10S563J  Mark ======== Circuit Symbol & No. ==== Part Name Part No.  R 360 361  RS1/10S124J  C 351  C 352 611 625 626 662 64 713 721 724 727 CKSQYB103K5  R 364 365 618 671  RS1/10S105J  C 353 613 666  CKSYB33SK25  R 367 780  RS1/10S104J  C 356 668 714  CKSQYB103K5  R 367 780  RS1/10S203J  C 355 667 668 714  CKSQYB103K5  R 379 722 723  RS1/10S203J  C 356 67 668 714  CKSQYB103K5  R 380 617 628 682  RS1/10S203J  C 359 614  CEAR4TM50LS  R 382  RS1/10S203J  C 350 861  CS2S010M16  R 383  RS1/10S223J  C 370 703 704  CCSCCR22015  R 601 602  RS1/10S223J  C 371 615  CKSQYB102K5  R 606  RS1/10S224J  C 372  CCSCCR12015  R 607  RS1/10S223J  C 371 615  CKSQYB102K5  R 608  RS1/10S223J  C 370 703 704  CCSCCR22015  R 607  RS1/10S223J  C 371 615  CKSQYB102K5  R 608  RS1/10S223J  C 371 615  CKSQYB102K5  R 609 614 619 627 773  RS1/10S23J  C 601 602  RS1/10S23J  C 602 62 628 629  CKSQYB10ZK5  R 613  RS1/10S23J  C 602 628 629  CKSQYB10ZK5  R 613  RS1/10S23J  C 603 607 612 716  CEA100M6R3L  R 611  RS1/10S432J  C 603 607 612 716  CEA10M6R3L  R 612  R 613  RS1/10S332J  C 606  CEA20M6R3L  R 613  RS1/10S332J  C 607 627 628 629  CKSQYB12K5  R 612  R 613  RS1/10S332J  C 607 609 756  CKSQYB12K5  R 620  RS1/10S332J  C 616  CEA20M6R3L  R 621  R 622 670 687 696 697 715 718 719 751  RS1/10S333J  C 617  CEA20M6R3L  CEA20M6R3L  CEA20M6R3L  CEA20M6R3L  CEA20M6R3L  CEA20M6R3L  CEA220M6R3L  CEA20M6R3L  CE	R 354 363 378	RS1/10S223J	CAPACITORS	•
R 360 361 RS1/105124J C 351 CEA101M6RSL R 362 763 RS1/105564J C 352 611 625 626 662 664 713 721 724 727 CKSQYB103K5 R 364 365 618 671 RS1/105105J C 353 613 666 CKSYB333K25 R 365 377 666 RS1/105562J C 354 357 CKSYB103K5 R 379 722 723 RS1/105104J C 356 67 668 714 CKSYB103X5 R 380 617 628 682 RS1/105203J C 359 614 CKSYB332K50 R 380 617 628 682 RS1/105203J C 359 614 CEAR4TM50LS R 382 RS1/105823J C 370 3704 CCSQCH220J5 R 384 630 RS1/105823J C 370 703 704 CCSQCH220J5 R 384 630 RS1/105273J C 371 615 CKSYB310ALS R 385 RS1/105273J C 371 615 CKSYB102K5 R 601 602 RS1/105101J C 372 CCSQCH220J5 R 606 RS1/105224J C 373 627 CCSQCH220J5 R 607 RS1/105823J C 601 CKSYB102K5 R 608 RS1/105823J C 601 CKSYB102K5 R 609 614 619 627 773 RS1/105823J C 601 CKSYB102K5 R 612 RS1/105432J C 603 607 612 716 CEA100M25LS R 613 RS1/105823J C 606 CEA20M6RSL R 614 RS1/105432J C 605 620 622 628 629 CKSYB478K25 R 615 RS1/105823J C 606 CEA200M6RSL R 616 RS1/105823J C 606 CEA220M6RSL R 617 RS1/105823J C 606 CEA220M6RSL R 618 RS1/105823J C 606 CEA220M6RSL R 619 RS1/105823J C 606 CEA220M6RSL R 610 RS1/105823J C 606 CEA220M6RSL R 611 RS1/105823J C 606 CEA220M6RSL R 612 RS1/105823J C 606 CEA220M6RSL R 613 RS1/105823J C 606 CEA220M6RSL R 614 RS1/105823J C 606 CEA220M6RSL R 615 RS1/105823J C 606 CEA220M6RSL R 616 RS1/105823J C 606 CEA220M6RSL R 617 RS1/105823J C 606 CEA220M6RSL R 620 RS1/105823J C 606 CEA220M6RSL R 621 RS1/105833J C 607 765 CKSYB478K5 R 622 670 687 696 697 715 718 719 751 RS1/105183J C 616 CEA220M6RSL R 621 RS1/105833J C 616 G19 CCSQCH221J5 R 622 670 687 696 697 715 718 719 751 RS1/105103J C 616 CEA220M6RSL R 624 RS1/105833J C 621 CEA220M6RSL R 624 RS1/105833J C 621 CEARTM16PP	R 355 610 625	RS1/10S113J		
R 362 763 RS1/10S564J C 352 611 625 626 662 664 713 721 724 727 CKSYP19385 RS 364 365 618 671 RS1/10S105J C 353 613 666 CKSYP3338/25 CKSYP3338/25 RS 366 377 666 RS1/10S562J C 354 357 RS 667 780 RS1/10S104J C 355 667 668 714 CKSYP3328/32 CKSYP1938 RS 367 780 RS1/10S104J C 355 667 668 714 CKSYP1938 RS 367 780 RS1/10S203J C 355 667 668 714 CKSYP1938 RS 367 780 RS1/10S203J C 359 614 CCRAR47M50LS RS 380 617 628 682 RS1/10S203J C 359 614 CCRAR47M50LS RS 380 617 628 682 RS1/10S203J C 359 614 CCRAR47M50LS RS 383 RS1/10S203J C 370 703 704 CCSCC122015 RS 384 630 RS1/10S223J C 370 703 704 CCSCC122015 RS 384 630 RS1/10S203J C 371 615 CKSCYP1028 RS 383 RS1/10S203J C 371 615 CKSCYP1028 RS 383 RS1/10S203J C 371 615 CKSCYP1028 RS 384 630 RS1/10S203J C 372 CCSCC1100D2 RS 366 RS1/10S203J C 373 627 CCSCC110D1 CKSCYP1028 RS 366 RS1/10S203J C 373 627 CCSCC110D1 CKSCYP1028 RS 366 RS1/10S203J C 373 627 CCSCC110D1 CKSCYP1028 RS 366 RS1/10S203J C 360 360 617 612 716 CCRA100M25LS RS 360 614 619 627 773 RS1/10S423J C 501 CKSCYP10C8 RS 360 614 619 627 773 RS1/10S423J C 503 607 612 716 CCRA100M68 RS 361	R 356 357 358 359 669	RS1/10S563J	Mark ====== Circuit Symbol & No. ==== Part Name	Part No.
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	R 360 361 R 362 763 R 364 365 618 671 R 366 377 666 R 367 780  R 379 722 723 R 380 617 628 682 R 382 R 383 R 384 630  R 601 602 R 606 R 507 R 608 R 609 614 619 627 773  R 611 R 612 R 613 R 616 R 620  R 621 R 622 670 687 696 697 715 718 719 751	RS1/10S124J RS1/10S564J RS1/10S105J RS1/10S562J RS1/10S104J  RS1/10S104J  RS1/10S203J RS1/10S203J RS1/10S273J  RS1/10S273J  RS1/10S224J RS1/10S224J RS1/10S683J RS1/10S683J RS1/10S683J RS1/10S683J RS1/10S104J  RS1/10S623J RS1/10S104J  RS1/10S624J RS1/10S624J RS1/10S183J RS1/10S183J RS1/10S183J RS1/10S183J	C 352 611 625 626 662 664 713 721 724 727 C 353 613 666 C 354 357 C 355 667 668 714  C 356 C 359 614 C 360 361 C 370 703 704 C 371 615  C 372 C 373 627 C 601 C 602 653 708 709 C 603 607 612 716  C 605 620 622 628 629 C 606 C 608 C 608 C 609 756 C 610 619  C 616 C 617	CKSQYB103K50 CKSYB333K25 CASA330M6R3 CKSQYB103K50 CKSYB332K50 CEAR47M50LS CSZS010M16 CCSQCH220J50 CCSQCH100D50 CCSQCH220J50 CCSQCH220J50 CCKSQYB22K50 CEA100M25LS CEA100M6R3LS CKSYB473K25 CEA220M6R3NF CKSQYB472K50 CCSQCH221J50 CCSQCH221J50 CCA220M6R3LS CCSQCH221J50
E471701001 . C 029 CV21700 T	R 360 361 R 362 763 R 364 365 618 671 R 366 377 666 R 367 780  R 379 722 723 R 380 617 628 682 R 382 R 383 R 384 630  R 601 602 R 606 R 607 R 608 R 609 614 619 627 773  R 611 R 612 R 613 R 616 R 620  R 621 R 622 670 687 696 697 715 718 719 751 R 623	RS1/10S124J RS1/10S564J RS1/10S105J RS1/10S105J RS1/10S104J  RS1/10S104J  RS1/10S203J RS1/10S203J RS1/10S223J RS1/10S273J  RS1/10S224J RS1/10S224J RS1/10S683J RS1/10S683J RS1/10S623J RS1/10S104J  RS1/10S623J RS1/10S104J  RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J	C 352 611 625 626 662 664 713 721 724 727 C 353 613 666 C 354 357 C 355 667 668 714  C 356 C 359 614 C 360 361 C 370 703 704 C 371 615  C 372 C 373 627 C 601 C 602 653 708 709 C 603 607 612 716  C 605 620 622 628 629 C 606 C 608 C 608 C 609 756 C 610 619  C 616 C 617 C 618	CKSQYB103K50 CKSYB333K25 CASA330M6R3 CKSQYB103K50 CKSYB332K50 CEAR47M50LS CSZS010M16 CCSQCH220J50 CKSQYB102K50 CCSQCH100D50 CCSQCH220J50 CKSQYB222K50 CEA100M25LS CEA100M6R3LS CKSYB473K25 CEA220M16LS CEA220M6R3NP CKSQYB472K50 CCSQCH221J50 CEA220M6R3LS CCH1050 CKSQYB682K50
	R 360 361 R 362 763 R 364 365 618 671 R 366 377 666 R 367 780  R 379 722 723 R 380 617 628 682 R 382 R 383 R 384 630  R 601 602 R 606 R 607 R 608 R 609 614 619 627 773  R 611 R 612 R 613 R 616 R 620  R 621 R 622 670 687 696 697 715 718 719 751 R 623 R 624	RS1/10S124J RS1/10S564J RS1/10S105J RS1/10S105J RS1/10S562J RS1/10S104J  RS1/10S203J RS1/10S203J RS1/10S23J RS1/10S273J  RS1/10S273J  RS1/10S224J RS1/10S683J RS1/10S683J RS1/10S683J RS1/10S683J RS1/10S683J RS1/10S104J  RS1/10S623J RS1/10S104J  RS1/10S104J  RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J	C 352 611 625 626 662 664 713 721 724 727 C 353 613 666 C 354 357 C 355 667 668 714  C 356 C 359 614 C 360 361 C 370 703 704 C 371 615  C 372 C 601 C 602 653 708 709 C 603 607 612 716  C 605 620 622 628 629 C 606 C 608 C 608 C 609 755 C 610 619  C 616 C 617 C 618 C 618 C 621	CKSQYB103K50 CKSYB333K25 CASA330M6R3 CKSQYB103K50 CKSYB332K50 CEAR47M50LS CSZS010M16 CCSQCH220J50 CKSQYB102K50 CCSQCH100D50 CCSQCH220J50 CKSQYB222K50 CEA100M6R3LS CKSYB473K25 CEA220M6R3NP CKSQYB472K50 CCSQCH221J50 CEA220M6R3LS CCSQCH221J50 CCA220M6R3LS CCH1050 CKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKSQYB682K50 CCKAQYB682K50 CCKAQYB682K50 CCKAQYB682K50 CCKAQYB682K50 CCKAQYB682K50 CCKAQYB682K50 CCKAQYB682K50

	==== Part Name Part No.						o. ==== Part Name	
C 624	CCSQCH391J50		IB 801					CWW1048
C 651 670	CKSYF224Z25		X 801			Cryst	al Resonator	CSS1023
C 652 470 μ F/		**	VR 871	872		Semi-	fixed 470Ω(B)	VRTB4VS47
C 654 658	CCSQCH221J50							
C 656	CEA100M16LS	RESIS	TORS			,		
C 661 663	CEA010M50NPLL	Mark	=====	===	Circuit	Symbol & N	o. ==== Part Name	Part No.
C 665 678	CKSYB473K25							
C 671 672	CSZSR68M20		R 801	805	809 810	811 812 84	6 847 848 849	RS1/10S47
C 674 705	CASA100M6R3		R 802				•	RS1/10S39
C 675 676	CEA2R2M35LS		R 803					RS1/10S68
		*	R 804					RS1/10S56
C 677 679	CCSQSL681J50		R 806	807	808 814	828 881 88	2	RS1/10S47
C 680	CCSQSL681J50							
C 681	CKSYB393K25		R 813	815	816			RD1/4PS47
C 701 710 712 726	CASA6R8M6R3		R 817					RD1/4PS10
C 702	CASA220M6R3				820 825			RS1/10S681
	0000011470460				823 824			RS1/10S68
C 706 707	CCSQCH470J50		R 826	827	831 839	841 842		RS1/10S10
C 717 718	CEA470M6R3LS		n					DO1 /10000
C 719	CEA101M6R3LS				844 845			RS1/10S22
C 720	CEA101M6R3LS		R 832					RS1P561JL
C 722 723	CEA330M6R3LS		R 833					RS1/8S223
			R 834					RS1/8S222
C 728 729 751 758	CKSQYB103K50		R 835	855	879 883	884		RD1/4PS10
C 752	CCSQCH300J50							DD+ //DC10
C 753	CCSQCH300J50		R 873					RD1/4PS10
C 755	CEA221M6R3LL		R 838					RD1/4PS56
C 757	CASA6R8M10		R 840					RD1/4PS22
			R 843					RS1/8S561
nit Number:			K 850	821	852 853			RS1/10S47
nit Name : Control Unit			n 054					DD1 /4DC00
			R 854					RD1/4PS33: RD1/4PS43:
			R 874					
Control Unit			R 875			,		RD1/4PS10
			R 876					RD1/4PS22: RD1/4PS82:
Consists of			600 л	000				KD1/41 302.
• Control P. C. Board		CAPAC	CITORS					
Dolby NR P. C. Board P. C. Board								B . W
		Mark					lo. ==== Part Name	
11 SCELLANEOUS					818 820	822 825		
			C 803	830				CEA220M16
								CEA220M16
ark ======= Circuit Symbol & No.	==== Part Name Part No.		C 804	ļ				
					807 808	809 810		CEA101M16
ark ======= Circuit Symbol & No.				806	807 808	809 810		CEA101M16
** IC 801	PD4155E		C 805	806	807 808	809 810		CEA101M16 CKSYB223K CKSYF473Z CCSQCH330
** IC 801 ** IC 802	PD4155E PA3022A		C 805	806 814	807 808	809 810		CEA101M16 CKSYB223K CKSYF473Z CCSQCH330
** IC 801 ** IC 802 ** IC 803	PD4155E PA3022A M51953BL		C 805 C 811	806 814	807 808	809 810		CEA101M16 CKSYB223K CKSYF473Z CCSQCH330
** IC 801 ** IC 802 ** IC 803 ** IC 804	PD4155E PA3022A M51953BL M51957BL		C 805 C 811 C 812	806 814 8829	807 808	809 810		CEA101M16 CKSYB223K CKSYF473Z CCSQCH330 CKSQYB392
** IC 801 ** IC 802 ** IC 803 ** IC 804	PD4155E PA3022A M51953BL		C 811 C 812 C 813	806 814 829	807 808	809 810		CEA101M161 CKSYB223K CKSYF473Z CCSQCH330 CKSQYB3921 CKSYF104Z
** IC 801 ** IC 802 ** IC 803 ** IC 804 ** IC 871	PD4155E PA3022A M51953BL M51957BL M51522AL		C 811 C 812 C 813 C 815 C 816	806 814 829 831		809 810 826 827		CEA101M161 CKSYB223K CKSYF473Z CCSQCH330 CKSQYB3921 CKSYF104Z CEA470M161
** IC 801 ** IC 802 ** IC 803 ** IC 804 ** IC 871 ** IC 872	PD4155P PA3022A M51953BL M51957BL M51522AL CXA1102P		C 811 C 812 C 813 C 815 C 816	806 814 829 831				CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392I CKSYF104Z: CEA470M161 CKSQYF473:
** IC 801 ** IC 802 ** IC 803 ** IC 804 ** IC 871 ** IC 872 ** Q 801 802 813 Chip	PD4155P PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712		C 811 C 812 C 813 C 815 C 816	806 814 829 831 819				CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392I CKSYF104Z: CEA470M161 CKSQYF473:
** IC 801 ** IC 802 ** IC 803 ** IC 871 ** IC 871 ** IC 872 ** Q 801 802 813 Chip ** Q 803 805	PD4155P PA3022A M51953BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458		C 805 C 811 C 812 C 813 C 815 C 816 C 817	806 814 829 831 819	821 824			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CKSQYF223I
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873	PD4155P PA3022A M51953BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES		C 805 C 811 C 812 C 813 C 815 C 816 C 817	806 814 829 831 819	821 824			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CKSQYB223I
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873	PD4155P PA3022A M51953BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458		C 805 C 811 C 812 C 813 C 815 C 816 C 817	806 814 829 831 819	821 824			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CKSQYB223! CEA010M501 CEAR68M501
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873 ** Q 807	PD4155P PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES 2SA1358		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 870 C 871	806 814 829 831 819 883	821 824			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473Z: CEA010M501 CEAR68M501 CCSCH090D! CKSQYB5611
** IC 801  ** IC 802  ** IC 803  ** IC 804  ** IC 871  ** IC 872  ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807  ** Q 808	PD4155P PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 870	806 814 829 831 819 883	821 824			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330 CKSQYB392! CKSYF104Z: CEA470M161 CKSQYB223! CEA010M501 CEAF68M501 CCSCH090D1
** 1C 801  ** 1C 802  ** 1C 803  ** 1C 804  ** 1C 871  ** 1C 872  ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807  ** Q 808  ** Q 808  ** Q 808	PD4155E PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 870 C 871 C 873	806 814 829 831 831 819 883 872	821 824			CEA101M16I CKSYB223K CKSYF473Z CCSQCH330 CKSYF104Z CEA470M16I CKSQYF473 CKSQYB223I CEA010M50I CCSCH090DI CKSQYB66II CEANL4R7M
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873 ** Q 807 ** Q 808 ** Q 808 ** Q 810 811 ** Q 812 874	PD4155E PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 870 C 871 C 875	806 814 829 831 819 883 872 874	821 824 884			CEA101M16I CKSYB223K CKSYF473Z CCSQCH330 CKSYF104Z CEA470M16I CKSQYF473 CKSQYB223I CEA16M50I CCSCH090DI CCSCH090DI CCSCH07M16I CEA170M16I CEA470M16I
** 1C 801  ** 1C 802  ** 1C 803  ** 1C 804  ** 1C 871   ** 1C 871   ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807   ** Q 808  ** Q 808  ** Q 810 811  ** Q 812 874  * D 801 802 803 804 805 809 810	PD4155E PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 813 815 819 1SS133		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 870 C 871 C 873 C 875 C 878	806 814 8 829 8 831 8 80	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330  CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CEA68M501 CCSCH0900! CKSQYB561! CEAML4R7M: CEA470M161 CEA101M101
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873 ** Q 807 ** Q 808 ** Q 808 ** Q 810 811 ** Q 812 874	PD4155E PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 873 C 875 C 878 C 878	806 814 8 814 8 829 6 831 8 831 8 831 8 883 8 874 8 876 8 882 8 828 8 828 8 8 828 8 828 8 8 828 8 86 8 86	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330  CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CKSQYB223! CEA010M501 CCSCH090D! CKSQYB561! CEAML4R7M: CEA470M161 CEA101M101 CEALNP0101
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 871 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873 ** Q 807 ** Q 808 ** Q 810 811 ** Q 812 874 * D 801 802 803 804 805 809 810 * D 806 808 812	PD4155P PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3		C 805 C 811 C 812 C 813 C 815 C 817 C 823 C 828 C 870 C 871 C 873 C 875 C 878 C 878 C 879 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCB330 CKSYF404Z: CEA70M161 CKSQYB223I CEA010M501 CEAR68M501 CCSCH090D: CKSQYB561I CEANL4R7M: CEA470M161 CEA101M101 CEALNP0101 CEAR15M501
** 1C 801 ** 1C 802 ** 1C 803 ** 1C 804 ** 1C 871 ** 1C 872 ** Q 801 802 813 Chip ** Q 803 805 ** Q 804 806 809 871 872 873 ** Q 807 ** Q 808 ** Q 810 811 ** Q 812 874 * D 806 808 812 * D 807	PD4155P PA3022A M51953BL M51957BL M51957BL M51522AL  CXA1102P Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3  RD22JSB1		C 805 C 811 C 812 C 813 C 815 C 816 C 817 C 823 C 828 C 873 C 875 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCH330  CKSQYB392! CKSYF104Z: CEA470M161 CKSQYF473: CKSQYB223! CEA010M501 CCSCH090D! CKSQYB561! CEAML4R7M: CEA470M161 CEA101M101 CEALNP0101
** IC 801  ** IC 802  ** IC 803  ** IC 804  ** IC 871   ** IC 871   ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807   ** Q 808  ** Q 808  ** Q 810 811  ** Q 812 874  * D 801 802 803 804 805 809 810  * D 806 808 812   * D 807  * D 811 814	PD4155E PA3022A M51953BL M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3  RD6R8JSB3  RD22JSB1 RD6R2JSB2		C 805 C 811 C 812 C 813 C 815 C 817 C 823 C 828 C 870 C 871 C 873 C 875 C 878 C 878 C 879 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCB330 CKSYF404Z: CEA70M161 CKSQYB223I CEA010M501 CEAR68M501 CCSCH090D: CKSQYB561I CEANL4R7M: CEA470M161 CEA101M101 CEALNP0101 CEAR15M501
** 1C 801  ** 1C 802  ** 1C 803  ** 1C 804  ** 1C 871   ** 1C 872  ** Q 801 802 813	PD4155E PA3022A M51953BL M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3  RD6R8JSB3  RD22JSB1 RD6R2JSB2 1SS133		C 805 C 811 C 812 C 813 C 815 C 817 C 823 C 828 C 870 C 871 C 873 C 875 C 878 C 878 C 879 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCB330 CKSYF404Z: CEA70M161 CKSQYB223I CEA010M501 CEAR68M501 CCSCH090D: CKSQYB561I CEANL4R7M: CEA470M161 CEA101M101 CEALNP0101 CEAR15M501
** IC 801  ** IC 802  ** IC 803  ** IC 804  ** IC 871   ** IC 872  ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807   ** Q 808  ** Q 810 811  ** Q 812 874  * D 801 802 803 804 805 809 810  * D 806 808 812   * D 807  * D 811 814  * D 817 820 821 822 871  L 801 802 Ferri-I	PD4155E PA3022A M51953BL M51957BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3  RD22JSB1 RD6R2JSB2 1SS133 nductor LAU150K		C 805 C 811 C 812 C 813 C 815 C 817 C 823 C 828 C 870 C 871 C 873 C 875 C 878 C 878 C 879 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCB330 CKSYF404Z: CEA70M161 CKSQYB223I CEA010M501 CEAR68M501 CCSCH090D: CKSQYB561I CEANL4R7M: CEA470M161 CEA101M101 CEALNP0101 CEAR15M501
** 1C 801  ** 1C 802  ** 1C 803  ** 1C 804  ** 1C 871   ** 1C 872  ** Q 801 802 813 Chip  ** Q 803 805  ** Q 804 806 809 871 872 873  ** Q 807   ** Q 808  ** Q 810 811  ** Q 812 874  * D 801 802 803 804 805 809 810  * D 806 808 812   * D 807  * D 811 814  * D 817 820 821 822 871  L 801 802 Ferri-I	PD4155E PA3022A M51953BL M51953BL M51957BL M51957BL M51522AL  CXA1102P  Transistor 2SC2712 2SC2458 DTC124ES 2SA1358  2SD1640 2SD1864 2SA1048 1SS133 RD6R8JSB3  RD6R8JSB3  RD22JSB1 RD6R2JSB2 1SS133		C 805 C 811 C 812 C 813 C 815 C 817 C 823 C 828 C 870 C 871 C 873 C 875 C 878 C 878 C 879 C 878 C 878	806 814 8 814 8 829 8 831 8 831 8 831 8 874 8 874 8 876 8 882 8 880	821 824 884			CEA101M161 CKSYB223K: CKSYF473Z: CCSQCB330 CKSYF404Z: CEA70M161 CKSQYB223I CEA010M501 CEAR68M501 CCSCH090D: CKSQYB561I CEANL4R7M: CEA470M161 CEA101M101 CEALNP0101 CEAR15M501

nit Number : nit Name : Key Board Unit		Mark ====== Circuit Symbol & No. ==== Part Name	
ISCELLANEOUS		R 235 236 239	RS1/10S223J RS1/10S103J RS1/8S333J
ark ====== Circuit Symbol & No. ==== Part Name		R 240 258	RS1/8S103J
** IC 901	LC7582P		RD1/4PS221J
* D 901 LED ** 1L 901 902 903 Lamp	MU16-3105 CEL1071		RD1/4PS561J
** IL 904 905 906 907 908 909 910 911 912 Lamp	CEL-153		RS1/8S152J
** S 901 902 903 904 905 906 907 908 909 910 Switch		7 - 7 - 7	RD1/2VS102J RS1/8S223J
** 911 912 913 914 915 916 917 918 919			RS1/8S102J
LCD	CWW1173	R 253 254	RD1/4PS101J
R 901	RD1/4PS104JL		RD1/4131013 RD1/4PS2233
R 902	RN1P6R8JL		RD1/4PS103.
C 901	CKPYB331K50L		RS1/10S221
C 902	CKPYF223Z25L	CAPACITORS	
nit Number:		Mark ====== Circuit Symbol & No. ==== Part Name	Part No.
nit Name : Audio Power Unit		0 00: 000 000	
I SCELLANEOUS			CEA100M16LS
			CEA2R2M50L3 CKSYF105Z2!
ark ====== Circuit Symbol & No. ==== Part Name	Part No.		CEA101M10L1
	Mr		CEAR47M50LS
** IC 201	KHA125		
** IC 202 203 204	TA75558S	C 213 214 215 216	CEA010M50LS
** IC 205	AN 7805R M5236L		CEA4R7M35LS
** IC 206 ** Q 201 202	DTC343TS		CEA101M10LS
TT Q DV1 DVD	D1004010		CKSQYB223K2
** Q 203 211	DTC124ES	C 229 232	CEA221M10L2
** Q 204	2SB1243	C 230	CKSQYB153K5
** Q 205	2SA1358		CEA470M25L2
** Q 206	2SC3421		CKSYB473K25
** Q 207 209	DTC114ES		CEA010M50L2
++ 0 208	2SB1357	C 236	CEA100M50L2
** Q 208 ** Q 210	DTA124ES		
* D 201 202 205 206	155133		CCH1003 CCH-123
* D 203	RD9R1JSB2		CCG1004
* D 204	RD6R8JSB3		0001004
, D 007 010 011	DDA1E DOWN	Unit Number:	
* D 207 210 211 * D 208 209	ERA15-02VH SM-3-02LFDA	Unit Name : Switch P. C. Board	
* D 212	RD5R6JSB2		D 4 M
L 201 202 Coil	CTH1053	Mark ====== Circuit Symbol & No. ==== Part Name	
L 203 Ferri-Inductor	CTF-157	44 C 1 Cm;+ab/CCT CTT	CSN-089
07, 004	OWWIIGI		CSN1003
CR 201	CWW1131	MR 1 2 Magnetic Resistive Device	SDME106B
RESISTORS		Unit Number:	
Mark ====== Circuit Symbol & No. ==== Part Name	Part No.	Unit Name : P.C. Board Unit	
D 201		Mark ====== Circuit Symbol & No. ==== Part Name	Part No.
R 201 R 202	RS1/10S393J RD1/4PS222JL		
R 203 204	RS1/10S102J	* D 1 2 3	181555
R 205 206	RS1/10S332J	Unit Number	
R 207 208 217 218 219 220 221 222 223 224	RS1/10S472J	Unit Number : Unit Name : Carriage P.C.Board	
R 209 210 234	RS1/10S472J	Mark ====== Circuit Symbol & No. ==== Part Name	Part No
R 211 233	RS1/10S392J	mark Circuit Symbol & No lait hame	
R 212	RS1/8S472J	** M 831 Motor Unit(Spindle)	CXM1033
R 213 214 215 216 237 R 225 226 227 228 241 242	RS1/10S333J RS1/10S101J	** M 832 Motor Unit(Carriage)	CXA2133

Unit Number:

Unit Name : Mechanism P. C. Board

ark	==:	=====	= Cir	cuit Symbol & No. ==== Part Name	Part No.
**	0	831		Photo-Transistor	PH102-F
**	D	831		LED(Disc Detect)	SLR-981A
**	M	833		Motor Unit(Loading)	CXA2129
**	S	832		Switch(Disc Set)	CSN1009
ark 	==	=======================================	== Cir		Part No.
ark 	==	======================================	== Ciro	cuit Symbol & No. ==== Part Name PU Unit	CGY1007
lark 	==		== Circ	cuit Symbol & No. ==== Part Name PU Unit	
		1	== Circ	cuit Symbol & No. ==== Part Name PU Unit Head Unit	CGY1007
**				Cuit Symbol & No. ==== Part Name  PU Unit  Head Unit  Motor(Head, FF/REW)	CGY1007 CXA2462
**	 М М	1		PU Unit  Head Unit  Motor(Head, FF/REW) Motor(Capstan)	CGY1007 CXA2462 CXA2429
**	 М М	1 3 801		PU Unit  Head Unit  Motor (Head, FF/REW)  Motor (Capstan)  Buzzer	CGY1007 CXA2462 CXA2429 CXM1007